Single Page Web Applications Javascript End To End

Mastering JavaScript Single Page Application DevelopmentAngularJS Web Application Development BlueprintsSingle Page Web ApplicationsJavaScript Web ApplicationsMastering NetBeansBuilding RESTful Web services with GoAngular 5 ProjectsWeb Development with MongoDB and NodeJSWeb Development with Node and ExpressHTML5 and JavaScript Web AppsMicroservices Security in ActionSails.js EssentialsMicrosoft Visual Studio 2015 UnleashedVue.js: Up and RunningIsomorphic JavaScript Web DevelopmentMastering Ember.jsModern JavaScriptJavaScriptProgramming JavaScript ApplicationsBuilding Isomorphic JavaScript AppsSPA Design and ArchitectureLearning JavaScript Design PatternsHTML5 for .NET DevelopersMastering Spring MVC 4Developing Backbone.js ApplicationsJavaScript Application DesignPro Single Page Application DevelopmentIsomorphic GoGetting to Know Vue.jsBuilding Single Page Applications in .NET Core 3Serverless Single Page AppsAngular RouterProgramming HTML5 Applications6 JavaScript ProjectsBeginning Jakarta EEJMeter CookbookBuilding Web Apps with WordPressFull Stack JavaScript Development With MEANProgramming Web Applications with Node, Express and PugLearning Single-page Web Application Development

Mastering JavaScript Single Page Application Development

One of the most important and exciting trends in web development in recent years is the move towards single page applications, or SPAs. Instead of clicking through hyperlinks and waiting for each page to load, the user loads a site once and all the interactivity is handled fluidly by a rich JavaScript front end. If you come from a background in ASP.NET development, you'll be used to handling most interactions on the server side. Pro Single Page Application Development will guide you through your transition to this powerful new application type. The book starts in Part I by laying the groundwork for SPA development. You'll master some JavaScript techniques that will come in useful later on, and get to know the building blocks of a single page application, including modules, routing and MV* frameworks. In Part II, you'll build the client for your application. This is where the magic happens, as the authors take you through the process step by step. Backbone.js is the ideal library for demonstrating SPA development in practice, but you can apply the same principles with other frameworks in your future applications. Part III takes you through the process of building the server side of your application using ASP.NET Web API, and hooking up the two parts of your application to create a working whole. SPA development also comes with its own particular challenges, including tracking history, user interface performance, and how to handle search engine optimization. In the final chapters, the authors guide you through some of these issues and advanced techniques and finish by showing you how to deploy your application. As SPAs become the de facto standard of web application development, the in-depth Pro Single Page Application Development will be your one-stop shop for creating fluid, modern applications on the web.

AngularJS Web Application Development Blueprints

If you want to build your site's frontend with the single-page application (SPA) model, this hands-on book shows you how to get the job done with Backbone.js. You'll learn how to create structured JavaScript applications, using Backbone's own flavor of model-view-controller (MVC) architecture. Start with the basics of MVC, SPA, and Backbone, then get your hands dirty building sample applications—a simple Todo list app, a RESTful book library app, and a modular app with Backbone and RequireJS. Author Addy Osmani, an engineer for Google's Chrome team, also demonstrates advanced uses of the framework. Learn how Backbone.js brings MVC benefits to the client-side Write code that can be easily read, structured, and extended Work with the Backbone.Marionette and Thorax extension frameworks Solve common problems you'll encounter when using Backbone.js Organize your code into modules with AMD and RequireJS Paginate data for your Collections with the Backbone.Paginator plugin Bootstrap a new Backbone.js application with boilerplate code Use Backbone with jQuery Mobile and resolve routing problems between the two Unit-test your Backbone apps with Jasmine, QUnit, and SinonJS

Single Page Web Applications

It's not uncommon these days to see people complaining about just how complex JavaScript development seems to have become. We can have some sympathy with that view when it's coming from someone new to the language. If you're learning JS, it won't take long for you to be exposed to the enormity of the ecosystem and the sheer number of moving pieces you need to understand (at least conceptually) to build a modern web application. Package management, linting, transpilation, module bundling, minification, source maps, frameworks, unit testing, hot reloading it can't be denied that this is a lot more complex that just including a couple of script tags in your page and FTPing it up to the server. Included topics: The Anatomy of a Modern JavaScript Application by James Kolce An Introduction to Gulp.js by Craig Buckler The Basics of DOM Manipulation in Vanilla JavaScript (No jQuery) by Sebastian Seitz A Beginner's Guide to Webpack 2 and Module Bundling by Mark Brown React vs Angular: An In-depth Comparison by Pavels Jelisejevs Retrofit Your Website as a Progressive Web App by Craig Buckler 10 Tips to Become a Better Node Developer by Azat Mardan An Introduction to Functional JavaScript by M. David Green An Introduction to Chart.js 2.0 : Six Simple Examples by Jack Rometty Learning JavaScript Test-Driven Development by Example by James Wright This book is for intermediate level JavaScript developers. Some experience of JavaScript development is assumed.

JavaScript Web Applications

This book is aimed at web developers who are familiar with frontend technologies like JavaScript, HTML, and CSS, and

modern tools like Bower, Yeoman, and Grunt.

Mastering NetBeans

A revised and updated edition offers comprehensive coverage of ECMAScript 5 (the new JavaScript language standard) and also the new APIs introduced in HTML5, with chapters on functions and classes completely rewritten and updated to match current best practices and a new chapter on language extensions and subsets. Original.

Building RESTful Web services with Go

Summary JavaScript Application Design: A Build First Approach introduces JavaScript developers to techniques that will improve the quality of their software as well as their web development workflow. You'll begin by learning how to establish build processes that are appropriate for JavaScript-driven development. Then, you'll walk through best practices for productive day-to-day development, like running tasks when your code changes, deploying applications with a single command, and monitoring the state of your application once it's in production. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Book The fate of most applications is often sealed before a single line of code has been written. How is that possible? Simply, bad design assures bad results. Good design and effective processes are the foundation on which maintainable applications are built, scaled, and improved. For JavaScript developers, this means discovering the tooling, modern libraries, and architectural patterns that enable those improvements. JavaScript Application Design: A Build First Approach introduces techniques to improve software quality and development workflow. You'll begin by learning how to establish processes designed to optimize the quality of your work. You'll execute tasks whenever your code changes, run tests on every commit, and deploy in an automated fashion. Then you'll focus on designing modular components and composing them together to build robust applications. This book assumes readers understand the basics of JavaScript. What's Inside Automated development, testing, and deployment processes JavaScript fundamentals and modularity best practices Modular, maintainable, and well-tested applications Master asynchronous flows, embrace MVC, and design a REST API About the Author Nicolas Bevacqua is a freelance developer with a focus on modular JavaScript, build processes, and sharp design. He maintains a blog at ponyfoo.com. Table of Contents PART 1 BUILD PROCESSES Introduction to Build First Composing build tasks and flows Mastering environments and the development workflow Release, deployment, and monitoring PART 2 MANAGING COMPLEXITY Embracing modularity and dependency management Understanding asynchronous flow control methods in JavaScript Leveraging the Model-View-Controller Testing JavaScript components REST API design and layered service architectures

Angular 5 Projects

Learn how to build dynamic web applications with Express, a key component of the Node/JavaScript development stack. In this hands-on guide, author Ethan Brown teaches you the fundamentals through the development of a fictional application that exposes a public website and a RESTful API. You'll also learn web architecture best practices to help you build single-page, multi-page, and hybrid web apps with Express. Express strikes a balance between a robust framework and no framework at all, allowing you a free hand in your architecture choices. With this book, frontend and backend engineers familiar with JavaScript will discover new ways of looking at web development. Create webpage templating system for rendering dynamic data Dive into request and response objects, middleware, and URL routing Simulate a production environment for testing and development Focus on persistence with document databases, particularly MongoDB Make your resources available to other programs with RESTful APIs Build secure apps with authentication, authorization, and HTTPS Integrate with social media, geolocation, and other third-party services Implement a plan for launching and maintaining your app Learn critical debugging skills This book covers Express 4.0.

Web Development with MongoDB and NodeJS

Explore the necessary concepts of REST API development by building few real world services from scratch. About This Book Follow best practices and explore techniques such as clustering and caching to achieve a reactive, scalable web service Leverage the Gin Framework to quickly implement RESTful endpoints Learn to implement a client library for a RESTful web service using Go Who This Book Is For This book is intended for those who want to learn to build RESTful web services with a framework like Gin. To make best use of the code samples included in the book, you should have a basic knowledge of Go programming. What You Will Learn Create HTTP handler and introspect the Gorilla Mux router OAuth 2 implementation with Go Build RESTFul API with Gin Framework Create REST API with MongoDB and Go Build a working client library and unit test for REST API Debug, test, and profile RESTful APIs with each of the frameworks Optimize and scale REST API using microservices In Detail REST is an architectural style that tackles the challenges of building scalable web services and in today's connected world, APIs have taken a central role on the web. APIs provide the fabric through which systems interact, and REST has become synonymous with APIs. The depth, breadth, and ease of use of Go, makes it a breeze for developers to work with it to build robust Web APIs. This book takes you through the design of RESTful web services and leverages a framework like Gin to implement these services. The book starts with a brief introduction to REST API development and how it transformed the modern web. You will learn how to handle routing and authentication of web services along with working with middleware for internal service. The book explains how to use Go frameworks to build RESTful web services and work with MongoDB to create REST API. You will learn how to integrate Postgres SQL and JSON with a Go web service and build a client library in Go for consuming REST API. You will learn how to scale APIs using the microservice architecture and deploy the REST APIs using Nginx as a proxy server. Finally you will learn how to metricize a REST API using an API Gateway. By the end of the book you will be proficient in building RESTful APIs in Go. Style and Approach This book is a step-by-step, hands-

on guide to designing and building RESTful web services.

Web Development with Node and Express

Microservices Security in Action teaches you how to address microservices-specific security challenges throughout the system. This practical guide includes plentiful hands-on exercises using industry-leading open-source tools and examples using Java and Spring Boot. Summary Unlike traditional enterprise applications, Microservices applications are collections of independent components that function as a system. Securing the messages, queues, and API endpoints requires new approaches to security both in the infrastructure and the code. Microservices Security in Action teaches you how to address microservices-specific security challenges throughout the system. This practical guide includes plentiful hands-on exercises using industry-leading open-source tools and examples using Java and Spring Boot. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the technology Integrating independent services into a single system presents special security challenges in a microservices deployment. With proper planning, however, you can build in security from the start. Learn to create secure services and protect application data throughout development and deployment. As microservices continue to change enterprise application systems, developers and architects must learn to integrate security into their design and implementation. Because microservices are created as a system of independent components, each a possible point of failure, they can multiply the security risk. With proper planning, design, and implementation, you can reap the benefits of microservices while keeping your application data—and your company's reputation—safe! About the book Microservices Security in Action is filled with solutions, teaching best practices for throttling and monitoring, access control, and microservice-to-microservice communications. Detailed code samples, exercises, and real-world use cases help you put what you've learned into production. Along the way, authors and software security experts Prabath Siriwardena and Nuwan Dias shine a light on important concepts like throttling, analytics gathering, access control at the API gateway, and microservice-to-microservice communication. You'll also discover how to securely deploy microservices using state-of-the-art technologies including Kubernetes, Docker, and the Istio service mesh. Lots of hands-on exercises secure your learning as you go, and this straightforward guide wraps up with a security process review and best practices. When you're finished reading, you'll be planning, designing, and implementing microservices applications with the priceless confidence that comes with knowing they're secure! What's inside Microservice security concepts Edge services with an API gateway Deployments with Docker, Kubernetes, and Istio Security testing at the code level Communications with HTTP, gRPC, and Kafka About the reader For experienced microservices developers with intermediate Java skills. About the author Prabath Siriwardena is the vice president of security architecture at WSO2. Nuwan Dias is the director of API architecture at WSO2. They have designed secure systems for many Fortune 500 companies. Table of Contents PART 1 OVERVIEW 1 Microservices security landscape 2 First steps in securing microservices PART 2 EDGE SECURITY 3 Securing north/south traffic with an API gateway 4 Accessing a secured microservice via a single-page

application 5 Engaging throttling, monitoring, and access control PART 3 SERVICE-TO-SERVICE COMMUNICATIONS 6 Securing east/west traffic with certificates 7 Securing east/west traffic with JWT 8 Securing east/west traffic over gRPC 9 Securing reactive microservices PART 4 SECURE DEPLOYMENT 10 Conquering container security with Docker 11 Securing microservices on Kubernetes 12 Securing microservices with Istio service mesh PART 5 SECURE DEVELOPMENT 13 Secure coding practices and automation

HTML5 and JavaScript Web Apps

If you are a web developer with basic knowledge of Ember.js, this is the book for you. Working knowledge of HTML, CSS, and JavaScript is assumed.

Microservices Security in Action

With Learning JavaScript Design Patterns, you'll learn how to write beautiful, structured, and maintainable JavaScript by applying classical and modern design patterns to the language. If you want to keep your code efficient, more manageable, and up-to-date with the latest best practices, this book is for you. Explore many popular design patterns, including Modules, Observers, Facades, and Mediators. Learn how modern architectural patterns—such as MVC, MVP, and MVVM—are useful from the perspective of a modern web application developer. This book also walks experienced JavaScript developers through modern module formats, how to namespace code effectively, and other essential topics. Learn the structure of design patterns and how they are written Understand different pattern categories, including creational, structural, and behavioral Walk through more than 20 classical and modern design patterns in JavaScript Use several options for writing modular code—including the Module pattern, Asyncronous Module Definition (AMD), and CommonJS Discover design patterns implemented in the jQuery library Learn popular design patterns for writing maintainable jQuery plug-ins "This book should be in every JavaScript developer's hands. It's the go-to book on JavaScript patterns that will be read and referenced many times in the future."—Andrée Hansson, Lead Front-End Developer, presis!

Sails.js Essentials

Learn to build single page web apps using Angular 5 and TypeScript by working through 70+ mini-projects. With hundreds of code examples you gain a thorough understanding of the Angular 5 ecosystem and how to work within it. You'll begin by understanding the benefits of Angular 5 vs older versions, and how this benefits your applications. You'll then move onto mini-projects that teach you JavaScript, TypeScript, how to use editors, Node, CLI, components, modules, directives, Webpack, dependency injection, widgets, routes and navigation, observers, reactive programming, and RxJS. Complete with

a consistently-updated online code repository, this book is a great way to get started with Angular 5. What You'll Learn Develop single page web applications using Angular 5 Understand the web development ecosystem Use Node, JavaScript and TypeScript Who This Book Is For New or experienced developers who wish to develop single page web applications in Angular and the TypeScript language.

Microsoft Visual Studio 2015 Unleashed

Summary In Single Page Web Applications you'll learn to build modern browser-based apps that take advantage of stronger client platforms and more predictable bandwidth. You'll learn the SPA design approach, and then start exploring new techniques like structured JavaScript and responsive design. And you'll learn how to capitalize on trends like server-side JavaScript and NoSQL data stores, as well as new frameworks that make JavaScript more manageable and testable as a first-class language. About this Book If your website is a jumpy collection of linked pages, you are behind. Single page web applications are your next step: pushing UI rendering and business logic to the browser and communicating with the server only to synchronize data, they provide a smooth user experience, much like a native application. But, SPAs can be hard to develop, manage, and test. Single Page Web Applications shows how your team can easily design, test, maintain, and extend sophisticated SPAs using JavaScript end-to-end, without getting locked into a framework. Along the way, you'll develop advanced HTML5, CSS3, and JavaScript skills, and use JavaScript as the language of the web server and the database. This book assumes basic knowledge of web development. No experience with SPAs is required. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. What's Inside Design, build, and test a full-stack SPA Best-in-class tools like jQuery, TaffyDB, Node.js, and MongoDB Real-time web with web sockets and Socket.IO Touch controls for tablets and smartphones Common SPA design mistakes About the Authors The authors are architects and engineering managers. Michael Mikowski has worked on many commercial SPAs and a platform that processes over 100 billion requests per year. Josh Powell has built some of the most heavily trafficked sites on the web. Table of Contents PART 1: INTRODUCING SPAS Our first single page application Reintroducing JavaScript PART 2: SPA CLIENT Develop the Shell Add feature modules Build the Model Finish the Model and Data modules PART 3: THE SPA SERVER The web server The server database Readying our SPA for production

Vue.js: Up and Running

Summary SPA Design and Architecture teaches you the design and development skills you need to create SPAs. Includes an overview of MV* frameworks, unit testing, routing, layout management, data access, pub/sub, and client-side task automation. This book is full of easy-to-follow examples you can apply to the library or framework of your choice. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology

The next step in the development of web-based software, single-page web applications deliver the sleekness and fluidity of a native desktop application in a browser. If you're ready to make the leap from traditional web applications to SPAs, but don't know where to begin, this book will get you going. About the Book SPA Design and Architecture teaches you the design and development skills you need to create SPAs. You'll start with an introduction to the SPA model and see how it builds on the standard approach using linked pages. The author guides you through the practical issues of building an SPA, including an overview of MV* frameworks, unit testing, routing, layout management, data access, pub/sub, and client-side task automation. This book is full of easy-to-follow examples you can apply to the library or framework of your choice. What's Inside Working with modular JavaScript Understanding MV* frameworks Layout management Client-side task automation Testing SPAs About the Reader This book assumes you are a web developer and know JavaScript basics. About the Author Emmit Scott is a senior software engineer and architect with experience building large-scale, web-based applications. Table of Contents PART 1 THE BASICS What is a single-page application? The role of MV* frameworks Modular JavaScript PART 2 CORE CONCEPTS Navigating the single page View composition and layout Inter-module interaction Communicating with the server Unit testing Client-side task automation APPENDIXES Employee directory example walk-through Review of the XMLHttpRequest API Chapter 7 server-side setup and summary Installing Node.js and Gulp.js

Isomorphic JavaScript Web Development

Isomorphic JavaScript, often described as the holy grail of web application development, refers to running JavaScript code on both the browser client and web application server. This application architecture has become increasingly popular for the benefits of SEO, optimized page load and full control of the UI, and isomorphic libraries are being used at companies like Walmart, Airbnb, Facebook, and Netflix. With this practical book, authors Jason Strimpel and Maxime Najim provide the knowledge you need to build and maintain your own isomorphic JavaScript apps. This book includes: Part 1 identifies different classifications of isomorphic JavaScript apps, and shows you how to set up a development environment Part 2 takes you from theory to practice by showing you how to build out your own isomorphic app Part 3 takes you through existing solutions in the market today, providing you with the knowledge you need to bring isomorphic solutions into your development workflow

Mastering Ember.js

Don't waste your time building an application server. See how to build low-cost, low-maintenance, highly available, serverless single page web applications that scale into the millions of users at the click of a button. Build well-tested single page apps that are safe from malicious attacks and adapt to any device or network connected to the web. Avoid messing around with middle-tier infrastructure and get right to the web app your customers want. You don't need to manage your

own servers to build powerful web applications--the Internet will do that for you. This book will show you how to create a single page app that runs entirely on web services, scales to millions of users, and costs less per day than a cup of coffee. Using a web browser, a prepared workspace, and your favorite editor, you'll build a complete single page web application, step by step. Deploy your application quickly using Amazon S3. Learn the fundamental technologies behind modern single page apps, and use web standards to create lean web applications that can take advantage of the newest technologies. Connect with providers like Google and Facebook to manage user identities. Read and write user data directly from the browser using a web service database. Learn how to defend your application against common security threats. Whether you've never built a web application before or you're a seasoned web developer who's just looking for an alternative to complex server-side web frameworks, this book describes a simple approach to building serverless web applications that you can easily apply or adapt for your own projects. What You Need: To follow the tutorial in this book, you'll need a computer with a web browser. You'll also need a text editor and a git client. Building this web application will require some sort of development web server. You can use your own, or you can also use the one included with the tutorial's prepared workspace. The included web server requires Ruby 2.0, although we also suggest few alternatives. To get started quickly, you need a basic understanding of HTML, CSS, and JavaScript. If you're new to these topics, you can get up to speed using links we'll provide in the Introduction.

Modern JavaScript

Attention .NET developers who no longer want to use JavaScript for your front end. Quickly and efficiently learn how to use C# for your single-page application (SPA) thanks to Blazor. Today's reality is that most modern applications are web-based and if you want the same user experience as a desktop application, you need to be able to create a single-page application. While there are multiple frameworks and libraries to choose from (including Angular, React, and VueJS), you still need to know how to code in JavaScript. But now there is another option from Microsoft. Blazor is an open-source framework that enables developers to create web applications using C# and HTML, and everything you need to get started is covered in this guide. You will learn the steps, through build-along coding examples, that will allow you to use the same language for both the front end and the back end of your application. This book is designed to get you comfortable creating a single-page application in the shortest time possible. Get ready to create a complete business application that teaches and reinforces the skills you need in a Blazor production environment. What You Will Learn Develop the front end of an application using C# and .NET Core Use this quick-start for .NET developers who need to improve their application with a single-page front end Take a code-first approach that models an actual business application Gain insights for developing a high-functioning and maintainable application Study guidance on repurposing your .NET skill set Who This Book Is For C# and .NET developers who have some experience in web development

JavaScript

With modern tools. it is possible to create a production grade, full-stack application using HTML, CSS, and JavaScript alone. The combination of MongoDB, Express, AngularJS, and Node.js has become so popular that it has earned the title MEAN stack -- the subject of this book. This book explores the MEAN stack in detail. We will begin by covering Node.js, as it will lay the groundwork for all of our server-side work. You will learn how to get Node running on your local machine as well as download modules using npm. The key aspects of the Node.js programming model will also be covered. From there, we will move on to MongoDB, where you'll learn how to interact with Mongo from a Node application. You will also learn how to create, retrieve, update, and delete data from a Mongo store. After you have a solid grasp on Node and Mongo, the book will move on to the Express web server. We'll cover the basics of Express applications via topics like routes and middleware. Building on previous chapters, we will cover the integration of Node, Mongo, and Express. Our coverage of the MEAN stack will wrap up with several chapters on AngularJS. These chapters will cover Angular fundamentals like data binding, directives, controllers, routing, and services. In an effort to explore competing technologies, a slight introduction to Ember.js will also be provided. Full stack JavaScript is not fully encompassed by the MEAN stack. There is an entire ecosystem of JavaScript tools to learn about, and this book will introduce a few of them. We will cover task runners Gulp.js and Grunt.js which are extremely useful for automating mundane, repetitive tasks. We'll also cover JSHint, a linting tool used to improve code quality. Linting tools analyze source code and report potentials issues - a feature that is especially useful in non-compiled languages like JavaScript.

Programming JavaScript Applications

Provides information on creating Web applications with JavaScript, covering such topics as structure, frameworks, templating, and communicating with the server.

Building Isomorphic JavaScript Apps

Microsoft Visual Studio 2015 empowers you to write next-generation applications for any modern environment: mobile, web, cloud, universal Windows 10/8.x, database, and beyond. This end-to-end deep dive will help working developers squeeze maximum productivity out of Microsoft's powerful new toolset. The authors combine authoritative and detailed information about Microsoft's latest IDE, with extensive insights and best practices drawn from decades of development experience. Developers will quickly get comfortable with Visual Studio 2015's updated interface, master its new capabilities, leverage its extensive new support for open standards, and discover multiple opportunities to leverage its .NET 4.6 platform and language improvements. By focusing entirely on Visual Studio 2015 Professional, the authors go deeper

into Microsoft's core product than ever before. You'll find expert coverage of everything from debugging through deploying to Azure, IDE extension and automation through cross-platform mobile development. Throughout, this book's focus is relentlessly practical: how to apply Microsoft's tools to build better software, faster. Detailed information on how to Master Visual Studio 2015's updated interface and key tools: Solutions, Projects, Browsers, Explorers, Editors, and Designers to improve productivity Develop robust cross-platform mobile apps for Windows, iOS, and Android using Apache Cordova templates for Visual Studio Use the new ASP.NET 5 to build modern web solutions that run on Windows, Mac, or Linux Develop Single Page Applications (SPAs) based on HTML5 and rich client-side JavaScript frameworks such as Knockout, AngularJS, Bootstrap, and more Accelerate cloud development with the Azure SDK, QuickStart templates, and Azure management portal Create mobile service solutions using ASP.NET Web API and WCF Streamline data development across multiple platforms with Entity Framework 7 Develop modern Microsoft Office business applications Perform robust, automated unit testing as you code, increasing your confidence in changes and refactoring Extend the VS 2015 IDE and Code Editor by creating custom, productivity-enhancing solutions Download all examples and source code presented in this book from informit.com/title/9780672337369 as they become available.

SPA Design and Architecture

Learn how to program modern web applications using the full Node.js platform, including Node.js on the server, Express for middleware and routing, and Pug (formerly Jade) to simplify the creation of views. Node.js is the foundation of all full JavaScript apps and plenty of books cover its full usage. This book focuses on how to use it to create server-based, modern web applications. Using Node.js alongside Express and Pug - the brand new version of Jade - you can create modern web applications solely using JavaScript. This book teaches you how to structure and build your app from scratch, and make development easy. What You Will Learn Use NodeJS in general and particularly the features require to create web applications Understand middleware and how to develop using the Express framework Explore the template engine Pug (formerly Jade) and how you can integrate it with Express"/li> Set up a complete development environment on both Linux and Windows Who This Book Is For Developers of web applications who come from Java/J2EE, ASP.NET, PHP, Ruby on Rails and want to explore the capabilities of JavaScript based server apps. It's suitable for beginners that have a basic understanding of JavaScript already.

Learning JavaScript Design Patterns

Learn powerful JavaScript tools for exploiting HTML5 elements, and discover new methods for working with data, such as offline storage and multithreaded processing. Complete with code samples, this book is ideal for experienced JavaScript and mobile developers alike.

HTML5 for .NET Developers

An in-depth guide to exploring the design, architecture, and techniques behind building sophisticated, scalable, and maintainable single-page applications in JavaScript About This Book Build large-scale, feature-complete SPAs by leveraging widely used tools and techniques. Gain a solid understanding of architecture and SPA design to build applications using the library or framework of your choice. Explore the various facets of SPA development to build web apps that are fast, scalable, and easy to test. Who This Book Is For This book is ideal for JavaScript developers who want to build complex single-page applications in JavaScript. Some basic understanding of SPA concepts will be helpful but not essential. What You Will Learn Organize your development environment using the command line with NPM, Bower, and Grunt. Choose an accurate design pattern for your app Understand modular JavaScript programming and Node.js Interact with a REST API using JavaScript and AJAX with practical examples Build a single page application using the MEAN stack Connect your app across popular social media platforms such as Facebook, Twitter, and LinkedIn Test your app, both on the server side and in views Prepare your app for the real world and deploy it to Heroku In Detail Single-page web applications—or SPAs, as they are commonly referred to—are quickly becoming the de facto standard for web app development. The fact that a major part of the app runs inside a single web page makes it very interesting and appealing. Also, the accelerated growth of browser capabilities is pushing us closer to the day when all apps will run entirely in the browser. This book will take your JavaScript development skills to the next level by teaching you to create a single-page application within a full-stack JavaScript environment. Using only JavaScript, you can go from being a front-end developer to a full-stack application developer with relative ease. You will learn to cross the boundary from front-end development to server-side development through the use of JavaScript on both ends. Use your existing knowledge of JavaScript by learning to manage a JSON document data store with MongoDB, writing a JavaScript powered REST API with Node.js and Express, and designing a front-end powered by AngularJS. This book will teach you to leverage the MEAN stack to do everything from document database design, routing REST web API requests, data-binding within views, and adding authentication and security to building a full-fledged, complex, single-page web application. In addition to building a full-stack JavaScript app, you will learn to test it with JavaScript-powered testing tools such as Mocha, Karma, and Jasmine. Finally, you will learn about deployment and scaling so that you can launch your own apps into the real world. Style and approach Following a structured approach, this book helps readers gain expertise in SPA development. Its thorough coverage of SPA architecture and design, along with practical use cases, provides readers with a clear path to building applications with the library of their choice. For readers who are afraid to take the plunge straightaway, the book also offers step-by-step guidance on developing a complex web app.

Mastering Spring MVC 4

Take advantage of JavaScript's power to build robust web-scale or enterprise applications that are easy to extend and maintain. By applying the design patterns outlined in this practical book, experienced JavaScript developers will learn how to write flexible and resilient code that's easier—yes, easier—to work with as your code base grows. JavaScript may be the most essential web programming language, but in the real world, JavaScript applications often break when you make changes. With this book, author Eric Elliott shows you how to add client- and server-side features to a large JavaScript application without negatively affecting the rest of your code. Examine the anatomy of a large-scale JavaScript application Build modern web apps with the capabilities of desktop applications Learn best practices for code organization, modularity, and reuse Separate your application into different layers of responsibility Build efficient, self-describing hypermedia APIs with Node.js Test, integrate, and deploy software updates in rapid cycles Control resource access with user authentication and authorization Expand your application's reach through internationalization

Developing Backbone.js Applications

There's no doubt that the JavaScript ecosystem changes fast. Not only are new tools and frameworks introduced and developed at a rapid rate, the language itself has undergone big changes with the introduction of ES2015 (aka ES6). Understandably, many articles have been written complaining about how difficult it is to learn modern JavaScript development these days. We're aiming to minimize that confusion with this set of books on modern JavaScript. This book presents six complete JavaScript projects; each taking advantage of modern JavaScript and its ecosystem. You'll learn to build several different apps, and along the way you'll pick up a ton of useful advice, tips, and techniques. It contains: Build a Full-Sphere 3D Image Gallery with React VR by Michaela Lehr Build a WebRTC Video Chat Application with SimpleWebRTC by Michael Wanyoike Build a JavaScript Single Page App Without a Framework by Michael Wanyoike Build a To-do List with Hyperapp, the 1KB JS Micro-framework by Darren Jones Use Parcel to Bundle a Hyperapp App & Deploy to GitHub Pages by Darren Jones Interactive Data Visualization with Modern JavaScript and D3 by Adam Janes This book is for all front-end developers who wish to improve their JavaScript skills. You'll need to be familiar with HTML and CSS and have a reasonable level of understanding of JavaScript in order to follow the discussion.

JavaScript Application Design

Build an interactive and full-featured web application from scratch using Node.js and MongoDB About This Book Configure your development environment to use Node.js and MongoDB Use Node.js to connect to a MongoDB database and perform data manipulations A practical guide with clear instructions to design and develop a complete web application from start to finish Who This Book Is For This book is designed for JavaScript developers of any skill level that want to get up and running using Node.js and MongoDB to build full-featured web applications. A basic understanding of JavaScript and HTML is the

only requirement for this book. What You Will Learn Configure your development environment to use Node.js and MongoDB Write and configure a web server using Node.js powered by the Express.js framework Build dynamic HTML pages using the Handlebars template engine Persist application data using MongoDB and Mongoose ODM Test your code using automated testing tools such as the Mocha framework Deploy the development environment to the cloud using services such as Heroku, Amazon Web Services, and Microsoft Azure Explore Single-Page application frameworks to take your web applications to the next level In Detail Node.js and MongoDB are quickly becoming one of the most popular tech stacks for the web. Powered by Google's V8 engine, Node.js caters to easily building fast, scalable network applications while MongoDB is the perfect fit as a scalable, high-performance, open source NoSQL database solution. Using these two technologies together, web applications can be built quickly and easily and deployed to the cloud with very little difficulty. The book will begin by introducing you to the groundwork needed to set up the development environment. Here, you will quickly run through the steps necessary to get the main application server up and running. Then you will see how to use Node.js to connect to a MongoDB database and perform data manipulations. From here on, the book will take you through integration with third-party tools for interaction with web apps. It then moves on to show you how to use controllers and view models to generate reusable code that will reduce development time. Toward the end of the book, we will cover tests to properly execute the code and some popular frameworks for developing web applications. By the end of the book, you will have a running web application developed with MongoDB and Node.js along with it's popular frameworks. Style and approach An easy guide to Node.js and MongoDB, which will quickly introduce you to the relevant concepts by taking you through the different steps involved in building a full-fledged web application.

Pro Single Page Application Development

Gain expertise in designing real-world web applications using the Spring MVC framework About This Book Design your own Spring web applications using tools such as Spring Boot and Spring Tool Suite Secure your developments with easy-to-write, reliable unit and end-to-end tests Deploy your application on the cloud for free and invite the whole world to see Who This Book Is For This book is perfect for developers who are familiar with the fundamentals of Spring programming and are eager to deepen their web development skills. Prior knowledge of the Spring MVC framework is recommended. What You Will Learn Set up your own web application using Spring Boot and Spring Tool Suite Discover the MVC architecture and the different tools along with navigating between views Design complex advanced-level forms and validate the model Craft a RESTful application with a meaningful API and error messages Create maintainable unit and acceptance tests Secure your application while allowing it to scale Optimize your requests with caching, ETags, and asynchronous responses Deploy the web application to the cloud in a snap In Detail Spring MVC is the ideal tool to build modern web applications on the server side. With the arrival of Spring Boot, developers can really focus on the code and deliver great value, leveraging the rich Spring ecosystem with minimal configuration. Spring makes it simple to create RESTful applications, interact with social

services, communicate with modern databases, secure your system, and make your code modular and easy to test. It is also easy to deploy the result on different cloud providers. Mastering Spring MVC will take you on a journey from developing your own web application to uploading it on the cloud. You begin by generating your own Spring project using Spring Tool suite and Spring Boot. As you develop an advanced-level interactive application that can handle file uploads as well as complex URLs, you will dive into the inner workings of Spring MVC and the principles of modern web architectures. You will then test, secure, and optimize your Spring web application and design RESTful services that will be consumed on the frontend. Finally, when everything is ready, you will release your application on a cloud provider and invite everyone to see. Style and approach An iterative hands-on approach in a conversational and easy-to-follow style. Each chapter will improve on the work done in the previous one until the application is ready to be released.

Isomorphic Go

Learn how to render lists of items without repeating your code structure and how to work with conditional rendering items and event handling. Containing all you need to know to get started with Vue.js, this book will take you through using build tools (transpile to ES5), creating custom components, state management, and routers. With Getting to Know Vue.js, you'll see how to combine reusable code with custom components, allowing you to create snippets of reusable code to suit your specific business needs. You'll also explore how to use Single File Components and the Vue.js Command Line Interface (CLI) to build components in a single file and add in build tools as you see fit. Getting started with a new Single Page Application (SPA) JavaScript framework can be an overwhelming task, but Vue.js makes this daunting task simple and easy to learn, allowing you to start implementing business needs with just a script reference to the library and the custom JavaScript required for your use case. Starting with a little reference and a handful of lines of custom JavaScript, you will have a complete Single Page Application before you know it. What You'll Learn Examine Vue.js templating syntax Work with binding methods Manage the state of your app by comparing your options of building a data store Adapt the more robust options compatible with Vue.js Review different router options, including creating your own router, using the Vue-router and using Page.js. Who This Book Is For Software developers with an understanding of HTML, CSS and JavaScript; prior understanding of a Single Page Application framework would be useful but not essential.

Getting to Know Vue.js

Master building complex applications with NetBeans to become more proficient programmers About This Book Customize NetBeans to fit your unique needs Excel in NetBeans IDE, learning the shortcuts and hidden features to become more productive A comprehensive guide to become more productive at application development using NetBeans IDE Who This Book Is For If you are a competent developer who wants to fast-track your application development with NetBeans IDE, then

this book is for you. Reasonable knowledge and an understanding of Java programming and NetBeans IDE is assumed. What You Will Learn Install NetBeans either from a distribution package or from source code Test, debug, and run production code using the NetBeans IDE Use external services such as PaaS environments and web services Create desktop applications using Swing tools Manage and configure relational databases Build a Java business model and web tiers using Java EE and Spring technologies Explore web services both with XML and RESTful approaches Handle external services such as databases , Maven repositories, and cloud providers Extend NetBeans for those situations where you require more from your IDE In Detail With the increasing complexity of software development and the abundance of tools available, learning your IDE in-depth will instantly increase your developer productivity. NetBeans is the only IDE that can be downloaded with Java itself and provides you with many cutting edge features not readily available with many IDEs. The IDE also provides a great set of tools for PHP and C/C++ developers. It is free and open source and has a large community of users and developers around the world. This book will teach you to ace NetBeans IDE and make use of it in creating Java business and web services. It will help you to become a proficient developer and use NetBeans for software development. You will learn effective third-party interaction and enable yourself for productive database development. Moving on, you will see how to create EJB projects and write effective and efficient web applications. Then you will learn how to use Swing and manage and configure a relational database. By the end of the book, you will be able to handle external services such as databases, Maven repositories, and cloud providers, and extend your NetBeans when you require more from your IDE. Style and approach An easy-to-follow yet comprehensive guide to help you master the exhaustive range of NetBeans features in order to become more efficient at Java programing. More advanced topics are covered in each chapter, with subjects grouped according to their complexity as well as their utility.

Building Single Page Applications in .NET Core 3

Provides inforamtion on using HTML5, JavaScript, and W3C specifications to create mobile and desktop Web applications for all browsers and devices.

Serverless Single Page Apps

Get a brisk introduction to building fast, interactive single-page web applications with Vue.js, the popular JavaScript framework that organizes and simplifies web development. With this practical guide, you'll quickly move from basics to custom components and advanced features—including JSX, the JavaScript syntax extension. Author Callum Macrae shows you how to use the most useful libraries in the Vue ecosystem, such as vue-router for routing, vuex for state management, and vue-test-utils for testing. If you're a frontend developer familiar with JavaScript, HTML, and CSS, this book will show you how to develop a fully featured web application using Vue. Learn Vue.js basics, including its use of templates to display

data on a page Set up Vue projects from scratch, or use vue-cli to set up from a template Create a maintainable codebase by splitting code into self-contained components Discover how Vue.js works with CSS to style your websites and applications Use render functions and JSX, rather than templates, to determine what Vue displays Control how code is executed and displayed with vue-router Manage state in one centralized place with the Vuex library Write unit tests to ensure your Vue components don't break in the future

Angular Router

Get up to speed with Sails.js development with this fast-paced tutorial About This Book Gain expertise in building web apps with Sails.js Develop apps such as real-time chat app and more in no time Helps you understand how MVC framework works in Node.js and how to make it work for you Who This Book Is For This book is for web developers who want to build web apps with Sails.js. Proficiency with JavaScript and Node.js is assumed, as well as familiarity with web development concepts. Familiarity with the MEAN (Mongo, Express, Angular, and Node) stack would be an added advantage. What You Will Learn Find out to quick-start Sails.js and develop production-ready apps Understand how to apply the MVC model of software development in Node.js using Sails.js Discover how to write quality code using Sails.js Integrate third-party APIs and databases such Mongo and MySQL in Sails.js Get to know the advantages and importance of the MVC framework in software development In Detail Sails.js makes it easy to build custom, enterprise-grade Node.js apps. It is designed to emulate the familiar MVC pattern of frameworks, but with support for the requirements of modern apps: data-driven APIs with a scalable, service-oriented architecture. This book will provide practical examples to get you started with Sails.js and get you develop production-ready apps in no time. We will take you from a Node.js web server and single threading system to a general MVC architecture. You will then learn to develop applications that you might be already familiar with using Sails.js. Finally, we will show you how to create a chat app and a to-do application, and improve code quality using JSHINT and JSCS. Style and approach This practical and easy-to-follow yet comprehensive guide will help you get to grips with the Sails.js framework. Each topic is explained and placed in context, and for the more inquisitive, there are more details of the concepts used.

Programming HTML5 Applications

This book is great for you if you are a developer, quality assurance engineer, tester, or test manager who is looking to get a firmer grasp of elementary, deep, and advanced testing concepts using Apache JMeter. It's assumed you have access to a computer and an Internet connection. No prior testing or programming experience is required, but would be helpful.

6 JavaScript Projects

Learning about isomorphic development in Go leads to a unified view of web and back-end development: It extends the remit of a server-side programming language to the browser. About This Book Learn how to build Isomorphic Go web applications Neatly organize your isomorphic codebase to enhance the maintainability of your application Leverage the same Go code across the web server and the web browser Who This Book Is For This book addresses web developers, who are comfortable with JavaScript and the full web development cycle. You may or may not be experienced in isomorphic development, but should have a basic understanding of Go's syntax. What You Will Learn Create Go programs inside the web browser using GopherJS Render isomorphic templates on both the client side and the server side Perform end-to-end application routing for greater search engine discoverability and an enhanced user experience Implement isomorphic handoff to seamlessly transition state between the web server and the web browser Build real-time web application functionality with websockets Create reusable components (cogs) that are rendered using the virtual DOM Deploy an Isomorphic Go application for production use In Detail Isomorphic Go is the methodology to create isomorphic web applications using the Go programming language. Isomorphic web applications have the capability to reuse code across environments, increasing the synergy between the web server and the web browser. This book is a hands-on guide that will show you how to build and deploy an Isomorphic Go web application. Isomorphic Go begins with an in-depth exploration of the benefits provided by the isomorphic web application architecture. You'll be introduced to the Isomorphic Go toolchain, and how it can help you write Go code that functions across environments. You'll learn how to create Go programs in the web browser using GopherJS and how to render isomorphic templates. Then you'll be introduced to end-to-end application routing, use isomorphic handoff to seamlessly transition state from the web server to the web browser, and compose isomorphic forms that have the ability to reuse form validation logic. You'll be exposed to advanced concepts including the implementation of real-time web application functionality with websockets and the creation of reusable components (cogs) that are rendered using the virtual DOM. Finally, you'll see how to deploy an Isomorphic Go web application to a production environment. Style and Approach Kamesh guides beginner Go developers and JavaScript developers with basic Go syntax skills through a full Go tutorial until they emerge with a working knowledge of isomorphic Go development.

Beginning Jakarta EE

Build Java-based enterprise applications using the open source Eclipse Jakarta EE platform. This feature-packed book teaches you enterprise Java development top to bottom. It covers Java web-tier development using servlets, JavaServer Faces (JSF), RESTful applications, and JSON. You'll also cover Java data-tier development using persistence and transaction handling, messaging services, remote procedure calls, concurrency, and security to round out a complete Java-based enterprise application. Step by step and easy to follow, Beginning Jakarta EE includes many practical examples. Written by a Java expert and consultant, this book contains the best information possible on enterprise Java technologies. You'll see that Jakarta EE is the next evolution of Java EE 8 and how it is one of the leading Java platforms for enterprise application

development. What You Will Learn Build enterprise Java applications using Jakarta EE Set up your development environment Create page-flow web applications with JSF Write single-page web applications with REST and JSON Persist data using JPA in Jakarta EE Build enterprise Java modules using EJBs and CDI Work with transaction engines using JTA Secure, log, and monitor your Jakarta EE applications Who This Book Is For Beginning Java EE application developers with some experience of Java 8.

JMeter Cookbook

Summary HTML5 for .NET Developers teaches professional software engineers how to integrate the latest HTML5 APIs and semantic markup into rich web applications using JavaScript, ASP.NET MVC, and WCF. Written from the .NET perspective, this book is full of practical applications and ways to connect the new web standards with your existing development practices About the Technology A shift is underway for Microsoft developers—to build web applications you'll need to integrate HTML5 features like Canvas-based graphics and the new JavaScript-driven APIs with familiar technologies like ASP.NET MVC and WCF. This book is designed for you. About this Book HTML5 for .NET Developers teaches you how to blend HTML5 with your current .NET tools and practices. You'll start with a quick overview of the new HTML5 features and the semantic markup model. Then, you'll systematically work through the JavaScript APIs as you learn to build single page web apps that look and work like desktop apps. Along the way, you'll get tips and learn techniques that will prepare you to build "metro-style" applications for Windows 8 and WP 8. This book assumes you're familiar with HTML, and concentrates on the intersection between new HTML5 features and Microsoft-specific technologies. Purchase of the print book comes with an offer of a free PDF, ePub, and Kindle eBook from Manning. Also available is all code from the book. What's Inside HTML5 from a .NET perspective Local storage, threading, and WebSockets Using JSON-enabled web services WCF services for HTML5 How to build single page web apps "This book speaks directly to the interests and concerns of the .NET developer."—From the Forward by Scott Hanselman, Microsoft Table of Contents HTML5 and .NET A markup primer: classic HTML, semantic HTML, and CSS Audio and video controls Canvas The History API: Changing the game for MVC sites Geolocation and web mapping Web workers and drag and drop Websockets Local storage and state management Offline web applications

Building Web Apps with WordPress

If you are a web application developer interested in using AngularJS for a real-life project, then this book is for you. As a prerequisite, knowledge of JavaScript and HTML is expected, and a working knowledge of AngularJS is preferred.

Full Stack JavaScript Development With MEAN

Leverage the power of React and Node to build complete web applications in pure JavaScript About This Book Combine the ease of React in the front end with the power of Node at the back end to build robust apps in pure JavaScript Get your hands dirty by building on an entire application throughout the course of the book Become productive and save precious time by adopting isomorphic JavaScript programming techniques Who This Book Is For This book is ideally meant for intermediate web developers who are interested in building isomorphic applications using JavaScript. What You Will Learn Build on the client side with the awesomeness of React Style your application effectively Render the server side using React Implement a GraphQL server based on Node, Express, and SQL Fetch application data using Relay Build an isomorphic router to use in the application Deploy your application to a cloud host Secure your application with a solid token-based authentication system In Detail The latest trend in web development, Isomorphic JavaScript, allows developers to overcome some of the shortcomings of single-page applications by running the same code on the server as well as on the client. Leading this trend is React, which, when coupled with Node, allows developers to build JavaScript apps that are much faster and more SEO-friendly than single-page applications. This book begins by showing you how to develop frontend components in React. It will then show you how to bind these components to back-end web services that leverage the power of Node. You'll see how web services can be used with React code to offload and maintain the application logic. By the end of this book, you will be able to save a significant amount of development time by learning to combine React and Node to code fast, scalable apps in pure JavaScript. Style and approach This step-by-step, example-based guide will get you acquainted with using React for the front end as well as back-end development.

Programming Web Applications with Node, Express and Pug

WordPress is much more than a blogging platform. As this practical guide clearly demonstrates, you can use WordPress to build web apps of any type—not mere content sites, but full-blown apps for specific tasks. If you have PHP experience with a smattering of HTML, CSS, and JavaScript, you'll learn how to use WordPress plugins and themes to develop fast, scalable, and secure web apps, native mobile apps, web services, and even a network of multiple WordPress sites. The authors use examples from their recently released SchoolPress app to explain concepts and techniques throughout the book. All code examples are available on GitHub. Compare WordPress with traditional app development frameworks Use themes for views, and plugins for backend functionality Get suggestions for choosing WordPress plugins—or build your own Manage user accounts and roles, and access user data Build asynchronous behaviors in your app with jQuery Develop native apps for iOS and Android, using wrappers Incorporate PHP libraries, external APIs, and web service plugins Collect payments through ecommerce and membership plugins Use techniques to speed up and scale your WordPress app

Learning Single-page Web Application Development

From Angular core team member and creator of the router About This Book Written by the creator of the Angular router, giving you the best information straight from the source Get full coverage of the entire Angular Router library and understand exactly how every command works Essential for all serious users of Angular who need to manage states within their applications Who This Book Is For To get the most from this book, you should already have a good understanding of Angular and general web development. What You Will Learn Understand the role of the Angular router and how to make the most of it Build and parse complex URLs Learn about the componentless and empty-path routes Take control of states in your application Make use of imperative navigation Understand guards and how they can benefit your applications Optimize configuration and run tests on your routing In Detail Managing state transitions is one of the hardest parts of building applications. This is especially true on the web, where you also need to ensure that the state is reflected in the URL. In addition, you might want to split applications into multiple bundles and load them on demand. Doing this transparently isn't easy. The Angular router solves these problems. Using the router, you can declaratively specify application states, manage state transitions while taking care of the URL, and load bundles on demand. This book is a complete description of the Angular router written by its designer. It goes far beyond a how-to-get-started guide and talks about the library in depth. The mental model, design constraints, and the subtleties of the API-everything is covered. You'll learn in detail how to use the router in your own applications. Predominantly, you'll understand the inner workings of the router and how you can configure it to work with any edge cases you come across in your sites. Throughout the book, you'll see examples from real-world use in the MailApp application. You can view the full source of this application and see how the router code works to manage the state of the application and define what is visible on screen. Reading this book will give you deep insights into why the router works the way it does and will make you an Angular router expert. Style and approach This is an extremely practical book full of code examples and descriptions to help you understand the inner workings of the Angular router.

ROMANCE ACTION & ADVENTURE MYSTERY & THRILLER BIOGRAPHIES & HISTORY CHILDREN'S YOUNG ADULT FANTASY HISTORICAL FICTION HORROR LITERARY FICTION NON-FICTION SCIENCE FICTION