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**Building Serverless Web Applications** Aug 07 2020 Build scalable, efficient, and highly available web apps using AWS About This Book Get an in-depth understanding of the serverless model Build a complete serverless web application end to end Learn how to use the Serverless Framework to improve your productivity Who This Book Is For If you're looking to learn more about scalable and cost-efficient architectures, this book is for you. Basic knowledge of Node.js skills or familiarity with cloud services is required. For other topics, we cover the basics. What You Will Learn Get a grasp of the pros and cons of going serverless and its use cases Discover how you can use the building blocks of AWS to your advantage Set up the environment and create a basic app with the

Serverless Framework Host static files on S3 and CloudFront with HTTPS support Build a sample application with a frontend using React as an SPA Develop the Node.js backend to handle requests and connect to a SimpleDB database Secure your applications with authentication and authorization Implement the publish-subscribe pattern to handle notifications in a serverless application Create tests, define the workflow for deployment, and monitor your app In Detail This book will equip you with the knowledge needed to build your own serverless apps by showing you how to set up different services while making your application scalable, highly available, and efficient. We begin by giving you an idea of what it means to go serverless, exploring the pros and cons of the serverless model and its use cases. Next, you

will be introduced to the AWS services that will be used throughout the book, how to estimate costs, and how to set up and use the Serverless Framework. From here, you will start to build an entire serverless project of an online store, beginning with a React SPA frontend hosted on AWS followed by a serverless backend with API Gateway and Lambda functions. You will also learn to access data from a SimpleDB database, secure the application with authentication and authorization, and implement serverless notifications for browsers using AWS IoT. This book will describe how to monitor the performance, efficiency, and errors of your apps and conclude by teaching you how to test and deploy your applications. Style and approach This book takes a step-by-step approach on how to use the Serverless Framework and AWS services to build Serverless Applications. It will give you a hands-on feeling, allowing you to practice while reading. It provides a brief introduction of concepts while keeping the focus on the practical skills required to develop applications.

#### Developer's Guide to Web Application Security

Oct 28 2019 Over 75% of network attacks are targeted at the web application layer. This book provides explicit hacks, tutorials, penetration tests, and step-by-step demonstrations for security professionals and Web application developers to defend their most vulnerable applications. This book defines Web application security, why it should be addressed earlier in the lifecycle in development and quality assurance, and how it differs from other types of Internet security. Additionally, the book examines the procedures and technologies that are essential to developing, penetration testing and releasing a secure Web application. Through a review of recent Web application breaches, the book will expose the prolific methods hackers use to execute Web attacks using common vulnerabilities such as SQL Injection, Cross-Site Scripting and Buffer Overflows in the application layer. By taking an in-depth look at the techniques hackers use to exploit Web applications, readers will be better equipped to protect confidential. The Yankee Group estimates the market for Web application-security products and services will grow to \$1.74 billion by 2007 from \$140 million in 2002 Author

Michael Cross is a highly sought after speaker who regularly delivers Web Application presentations at leading conferences including: Black Hat, TechnoSecurity, CanSec West, Shmoo Con, Information Security, RSA Conferences, and more

**Express Web Application Development** Feb 22 2022 Express Web Application Development is a practical introduction to learning about Express. Each chapter introduces you to a different area of Express, using screenshots and examples to get you up and running as quickly as possible. If you are looking to use Express to build your next web application, "Express Web Application Development" will help you get started and take you right through to Express' advanced features. You will need to have an intermediate knowledge of JavaScript to get the most out of this book.

**Go: Building Web Applications** Jul 26 2019 Build real-world, production-ready solutions by harnessing the powerful features of Go About This Book An easy-to-follow guide that provides everything a developer needs to know to build end-to-end web applications in Go Write interesting and clever, but simple code, and learn skills and techniques that are directly transferable to your own projects A practical approach to utilize application scaffolding to design highly scalable programs that are deeply rooted in go routines and channels Who This Book Is For This book is intended for developers who are new to Go, but have previous experience of building web applications and APIs. What You Will Learn Build a fully featured REST API to enable client-side single page apps Utilize TLS to build reliable and secure sites Learn to apply the nuances of the Go language to implement a wide range of start-up quality projects Create websites and data services capable of massive scale using Go's net/http package, exploring RESTful patterns as well as low-latency WebSocket APIs Interact with a variety of remote web services to consume capabilities ranging from authentication and authorization to a fully functioning thesaurus Explore the core syntaxes and language features that enable concurrency in Go Understand when and where to use concurrency to keep data consistent and applications non-blocking, responsive, and reliable Utilize advanced

concurrency patterns and best practices to stay low-level without compromising the simplicity of Go itself In Detail Go is an open source programming language that makes it easy to build simple, reliable, and efficient software. It is a statically typed language with syntax loosely derived from that of C, adding garbage collection, type safety, some dynamic-typing capabilities, additional built-in types such as variable-length arrays and key-value maps, and a large standard library. This course starts with a walkthrough of the topics most critical to anyone building a new web application. Whether it's keeping your application secure, connecting to your database, enabling token-based authentication, or utilizing logic-less templates, this course has you covered. Scale, performance, and high availability lie at the heart of the projects, and the lessons learned throughout this course will arm you with everything you need to build world-class solutions. It will also take you through the history of concurrency, how Go utilizes it, how Go differs from other languages, and the features and structures of Go's concurrency core. It will make you feel comfortable designing a safe, data-consistent, and high-performance concurrent application in Go. This course is an invaluable resource to help you understand Go's powerful features to build simple, reliable, secure, and efficient web applications. Style and approach This course is a step-by-step guide, which starts off with the basics of go programming to build web applications and will gradually move on to cover intermediate and advanced topics. You will be going through this smooth transition by building interesting projects along with the authors, discussing significant options, and decisions at each stage, while keeping the programs lean, uncluttered, and as simple as possible.

**Building Web Apps with Ember.js** Nov 29 2019 If you're a web developer interested in building scalable single-page applications—full-stack, browser-based apps that connect to a backend—this practical guide shows you how to use Ember.js, the popular JavaScript framework based on the model-view-controller (MVC) architectural pattern. Through the course of the book, you'll learn how to build a prototype Ember application (a musician index called Rock'n'Roll Call), using routers, templates,

models, controllers, and views. You'll also understand how Ember's convention over configuration approach helps you persist data, build backend technologies, and create widgets for developing production-capable applications that behave like desktop software. Set up workflow management and boilerplate code creation Learn how Ember's "developer ergonomics" help you use less code Write templates for the book's prototype with Handlebars.js Use routers to manage application states without reloading the page Connect controllers and views with events, and sync data with data-binding Build an Ember backend with a RESTful API or Ruby on Rails Use the Ember-Data library to persist data and talk to the backend Write reusable encapsulated widgets to extend your applications

### **Progressive Web Application Development**

**by Example** Aug 19 2021 Leverage the full potential of the web to make your web sites better than native applications for every platform. Key Features Explore different models and patterns required to develop progressive web applications Create applications requiring shorter runtime for attracting more users Study different projects to understand the fundamentals of progressive web applications Book Description Are you a developer that wants to create truly cross-platform user experiences with a minimal footprint, free of store restrictions and features customers want? Then you need to get to grips with Progressive Web Applications (PWAs), a perfect amalgamation of web and mobile applications with a blazing-fast response time. Progressive Web Application Development by Example helps you explore concepts of the PWA development by enabling you to develop three projects, starting with a 2048 game. In this game, you will review parts of a web manifest file and understand how a browser uses properties to define the home screen experience. You will then move on to learning how to develop and use a podcast client and be introduced to service workers. The application will demonstrate how service workers are registered and updated. In addition to this, you will review a caching API so that you have a firm understanding of how to use the cache within a service worker, and you'll discover core caching strategies and how to

code them within a service worker. Finally, you will study how to build a tickets application, wherein you'll apply advanced service worker techniques, such as cache invalidation. Also, you'll learn about tools you can use to validate your applications and scaffold them for quality and consistency. By the end of the book, you will have walked through browser developer tools, node modules, and online tools for creating high-quality PWAs. What you will learn Explore the core principles of PWAs Study the three main technical requirements of PWAs Discover enhancing requirements to make PWAs transcend native apps and traditional websites Create and install PWAs on common websites with a given HTTPS as the core requirement Get acquainted with the service worker life cycle Define service worker caching patterns Apply caching strategies to three different website scenarios Implement best practices for web performance Who this book is for Progressive Web Application Development by Example is for you if you're a web developer or front-end designer who wants to ensure improved user experiences. If you are an application developer with knowledge of HTML, CSS, and JavaScript, this book will help you enhance your skills in order to develop progressive web applications, the future of app development.

*Universal Design for Web Applications* Mar 26 2022 Describes how to use such standards-based technologies as XHTML, CSS, and Ajax to develop a variety of Web applications and devices.

*Building Progressive Web Apps* Feb 10 2021 Move over native apps. New progressive web apps have capabilities that will soon make you obsolete. With this hands-on guide, web developers and business execs will learn how—and why—to develop web apps that take advantage of features that have so far been exclusive to native apps. Features that include fast load times, push notifications, offline access, homescreen shortcuts, and an entirely app-like experience. By leveraging the latest browser APIs, progressive web apps combine all of the benefits of native apps, while avoiding their issues. Throughout the book, author Tal Ater shows you how to improve a simple website for the fictional Gotham Imperial Hotel into a modern progressive web app. Plus: Understand

how service workers work, and use them to create sites that launch in an instant, regardless of the user's internet connection Create full-screen web apps that launch from the phone's homescreen just like native apps Re-engage users with push notifications, even days after they have left your site Embrace offline-first and build web apps that gracefully handle loss of connectivity Explore new UX opportunities and challenges presented by progressive web apps **Web Database Applications with PHP and MySQL** Apr 14 2021 Combines language tutorials with application design advice to cover the PHP server-side scripting language and the MySQL database engine.

*Secure Java* Oct 09 2020 Most security books on Java focus on cryptography and access control, but exclude key aspects such as coding practices, logging, and web application risk assessment. Encapsulating security requirements for web development with the Java programming platform, *Secure Java: For Web Application Development* covers secure programming, risk assessment, and threat modeling—explaining how to integrate these practices into a secure software development life cycle. From the risk assessment phase to the proof of concept phase, the book details a secure web application development process. The authors provide in-depth implementation guidance and best practices for access control, cryptography, logging, secure coding, and authentication and authorization in web application development. Discussing the latest application exploits and vulnerabilities, they examine various options and protection mechanisms for securing web applications against these multifarious threats. The book is organized into four sections: Provides a clear view of the growing footprint of web applications Explores the foundations of secure web application development and the risk management process Delves into tactical web application security development with Java EE Deals extensively with security testing of web applications This complete reference includes a case study of an e-commerce company facing web application security challenges, as well as specific techniques for testing the security of web applications. Highlighting state-of-the-art tools for web application security testing, it

supplies valuable insight on how to meet important security compliance requirements, including PCI-DSS, PA-DSS, HIPAA, and GLBA. The book also includes an appendix that covers the application security guidelines for the payment card industry standards.

*Build Web Applications with Java* Mar 02 2020

This book is primarily intended for beginners who wants to learn various aspects of software engineering and building web applications using Java programming language. There are many good books available in the market which independently teach Java, Web Servers, MVC based Frameworks, JSP, PL/SQL, AJAX, JavaScript, CSS, HTML5, UML, SDLC etc. This book covers all of these things plus other aspects together while building an actual web application from inception till completion. This books takes a sample web application and builds it from scratch. Each aspect is explained at micro level with real time examples along with the UML diagrams and code. The fundamental concepts of software engineering and programming web applications are covered with high importance. The objective of this book is to teach building modern day business web applications using java and other related technologies. This book teaches everything in details and in simpler way about building web applications with medium to high level of complexity. This book also covers various software engineering concepts that are required for building software solutions. The book takes you through each and every step of building a web application from scratch. The objective is to teach the reader every single aspect of software engineering required for building web applications from inception till deployment and support. In order to achieve the objective, a real life business requirement is taken and the sample project is built step by step from requirements gathering till deployment and support. The book includes building a light weight MVC based Java framework and building the sample web application using it. During the course architecture, SDLC, UML, security, ajax, various patterns, best practices and other related topics are explained. The best way to learn anything is to get the hands dirty. When a developer starts building any software solution, he/she gets lots of doubts and questions while

actually doing it. When the reader architects, designs and does the coding hands on, the reader learns every aspect practically. When the reader builds the working application step by step, the confidence of the reader as a developer is boosted.

*Web Application Architecture* Nov 21 2021 In-depth examination of concepts and principles of Web application development Completely revised and updated, this popular book returns with coverage on a range of new technologies. Authored by a highly respected duo, this edition provides an in-depth examination of the core concepts and general principles of Web application development. Packed with examples featuring specific technologies, this book is divided into three sections: HTTP protocol as a foundation for Web applications, markup languages (HTML, XML, and CSS), and survey of emerging technologies. After a detailed introduction to the history of Web applications, coverage segues to core Internet protocols, Web browsers, Web application development, trends and directions, and more. Includes new coverage on technologies such as application primers, Ruby on Rails, SOAP, XPath, P3P, and more Explores the fundamentals of HTTP and its evolution Looks at HTML and its roots as well as XML languages and applications Reviews the basic operation of Web Servers, their functionality, configuration, and security Discusses how to process flow in Web browsers and looks at active browser pages Addresses the trends and various directions that the future of Web application frameworks may be headed This book is essential reading for anyone who needs to design or debug complex systems, and it makes it easier to learn the new application programming interfaces that arise in a rapidly changing Internet environment.

*Single Page Web Applications* Jan 30 2020

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 Readyng our SPA for production

**Professional Java for Web Applications** Jul 30 2022 The comprehensive Wrox guide for creating Java web applications for the enterprise This guide shows Java software developers and software engineers how to build complex web applications in an enterprise environment. You'll begin with an introduction to the Java Enterprise Edition and the basic web application, then set up a development application server environment, learn about the tools used in the development process, and explore numerous Java technologies and practices. The book covers

industry-standard tools and technologies, specific technologies, and underlying programming concepts. Java is an essential programming language used worldwide for both Android app development and enterprise-level corporate solutions As a step-by-step guide or a general reference, this book provides an all-in-one Java development solution Explains Java Enterprise Edition 7 and the basic web application, how to set up a development application server environment, which tools are needed during the development process, and how to apply various Java technologies Covers new language features in Java 8, such as Lambda Expressions, and the new Java 8 Date & Time API introduced as part of JSR 310, replacing the legacy Date and Calendar APIs Demonstrates the new, fully-duplex WebSocket web connection technology and its support in Java EE 7, allowing the reader to create rich, truly interactive web applications that can push updated data to the client automatically Instructs the reader in the configuration and use of Log4j 2.0, Spring Framework 4 (including Spring Web MVC), Hibernate Validator, RabbitMQ, Hibernate ORM, Spring Data, Hibernate Search, and Spring Security Covers application logging, JSR 340 Servlet API 3.1, JSR 245 JavaServer Pages (JSP) 2.3 (including custom tag libraries), JSR 341 Expression Language 3.0, JSR 356 WebSocket API 1.0, JSR 303/349 Bean Validation 1.1, JSR 317/338 Java Persistence API (JPA) 2.1, full-text searching with JPA, RESTful and SOAP web services, Advanced Message Queuing Protocol (AMQP), and OAuth Professional Java for Web Applications is the complete Wrox guide for software developers who are familiar with Java and who are ready to build high-level enterprise Java web applications.

[Morgan Kaufmann series in data management systems](#) May 16 2021 This text represents a breakthrough in the process underlying the design of the increasingly common and important data-driven Web applications.

**Intelligent Technologies for Web Applications** Sep 07 2020 The Internet has become an integral part of human life, yet the web still utilizes mundane interfaces to the physical world, which makes Internet operations somewhat mechanical, tedious, and less human-

oriented. Filling a large void in the literature, Intelligent Technologies for Web Applications is one of the first books to focus on providing vital fundamental and advanced guidance in the area of Web intelligence for beginners and researchers. The book covers techniques from diverse areas of research, including: Natural language processing Information extraction, retrieval, and filtering Knowledge representation and management Machine learning Databases Data, web, and text mining Human-computer interaction Semantic web technologies To develop effective and intelligent web applications and services, it is critical to discover useful knowledge through analyzing large amounts of content, hidden content structures, or usage patterns of web data resources. Intended to improve and reinforce problem-solving methods in this area, this book delves into the hybridization of artificial intelligence (AI) and web technologies to help simplify complex Web operations. It introduces readers to the state-of-the art development of web intelligence techniques and teaches how to apply these techniques to develop the next generation of intelligent Web applications. The book lays out presented projects, case studies, and innovative ideas, which readers can explore independently as standalone research projects. This material facilitates experimentation with the book's content by including fundamental tools, research directions, practice questions, and additional reading.

**Hacking Web Apps** Dec 31 2019 HTML5 -- HTML injection & cross-site scripting (XSS) -- Cross-site request forgery (CSRF) -- SQL injection & data store manipulation -- Breaking authentication schemes -- Abusing design deficiencies -- Leveraging platform weaknesses - - Browser & privacy attacks.

Building Scalable PHP Web Applications Using the Cloud Dec 11 2020 Eliminate the guesswork involved in writing and deploying a cloud application. This step-by-step guide uses PHP to minimize the complexity of the code and setup, but the tools and techniques can be applied on any platform using any language. Everything that you need to jumpstart your application on the cloud is right here. Clear diagrams, step-by-step configuration information, and complete code listings tell you everything you need to get

off the ground and start developing your cloud application today. This book introduces several cloud architectures and technologies that will help you accelerate your application in the cloud. Chapters cover load-balanced clusters, database replication, caching configuration, content delivery networks, infinite-scale file storage, and cloud system administration. Cloud computing has dramatically changed the landscape of web hosting. Instead of spending weeks negotiating contracts for servers, new servers can be deployed with the push of a button, and your application can be resized almost instantly to meet today's needs. No matter what size of web application you are developing, you can benefit from modern cloud servers, and this is the guide to tell you how. What You'll Learn Use the cloud and its various platforms with Docker management tools Build a simple PHP-based scalable web application Create a basic cloud cluster Work with Amazon and Google Cloud Platform in your PHP web application development Who This Book Is For Developers who have some prior programming experience, including PHP, and who are new to building applications

Safety of Web Applications Jan 12 2021 Safety of Web Applications: Risks, Encryption and Handling Vulnerabilities with PHP explores many areas that can help computer science students and developers integrate security into their applications. The Internet is not secure, but it's very friendly as a tool for storing and manipulating data. Customer confidence in Internet software is based on it's ability to prevent damage and attacks, but secure software is complicated, depending on several factors, including good risk estimation, good code architecture, cyphering, web server configuration, coding to prevent the most common attacks, and identification and rights allocation. Helps computer science students and developers integrate security into their applications Includes sections on risk estimate, MVC modeling, the cyphering (certificates, bi-keys, https protocol)

*The Web Application Hacker's Handbook* Jul 18 2021 This book is a practical guide to discovering and exploiting security flaws in web applications. The authors explain each category of vulnerability using real-world examples,

screen shots and code extracts. The book is extremely practical in focus, and describes in detail the steps involved in detecting and exploiting each kind of security weakness found within a variety of applications such as online banking, e-commerce and other web applications. The topics covered include bypassing login mechanisms, injecting code, exploiting logic flaws and compromising other users. Because every web application is different, attacking them entails bringing to bear various general principles, techniques and experience in an imaginative way. The most successful hackers go beyond this, and find ways to automate their bespoke attacks. This handbook describes a proven methodology that combines the virtues of human intelligence and computerized brute force, often with devastating results. The authors are professional penetration testers who have been involved in web application security for nearly a decade. They have presented training courses at the Black Hat security conferences throughout the world. Under the alias "PortSwigger", Dafydd developed the popular Burp Suite of web application hack tools.

**Web Application Design Handbook** Aug 31 2022 The standards for usability and interaction design for Web sites and software are well known. While not everyone uses those standards, or uses them correctly, there is a large body of knowledge, best practice, and proven results in those fields, and a good education system for teaching professionals "how to." For the newer field of Web application design, however, designers are forced to reuse the old rules on a new platform. This book provides a roadmap that will allow readers to put complete working applications on the Web, display the results of a process that is running elsewhere, and update a database on a remote server using an Internet rather than a network connection. Web Application Design Handbook describes the essential widgets and development tools that will lead to the right design solutions for your Web application. Written by designers who have made significant contributions to Web-based application design, it delivers a thorough treatment of the subject for many different kinds of applications, and provides quick reference for designers looking

for some fast design solutions and opportunities to enhance the Web application experience. This book adds flavor to the standard Web design genre by juxtaposing Web design with programming for the Web and covers design solutions and concepts, such as intelligent generalization, to help software teams successfully switch from one interface to another. \* The first interaction design book that focuses exclusively on Web applications. \* Full-color figures throughout the book. \* Serves as a "cheat sheet" or "fake book" for designers: a handy reference for standards, rules of thumb, and tricks of the trade. \* Applicable to new Web-based applications and for porting existing desktop applications to Web browsers.

**Learning Progressive Web Apps** Jun 24 2019 Use Service Workers to Turbocharge Your Web Apps "You have made an excellent decision in picking up this book. If I was just starting on my learning path to mastery of Progressive Web Apps, there are not many folks I would trust more to get me there than John." —Simon MacDonald, Developer Advocate, Adobe Software developers have two options for the apps they build: native apps targeting a specific device or web apps that run on any device. Building native apps is challenging, especially when your app targets multiple system types—i.e., desktop computers, smartphones, televisions—because user experience varies dramatically across devices. Service Workers—a relatively new technology—make it easier for web apps to bridge the gap between native and web capabilities. In Learning Progressive Web Apps, author John M. Wargo demonstrates how to use Service Workers to enhance the capabilities of a web app to create Progressive Web Apps (PWA). He focuses on the technologies that enable PWAs and how to use those technologies to enhance your web apps to deliver a more native-like experience. Build web apps a user can easily install on their local system and that work offline or on low-quality networks Utilize caching strategies that give you control over which app resources are cached and when Deliver background processing in a web application Implement push notifications that enable an app to easily engage with users or trigger action from a remote server Throughout the book, Wargo introduces each core concept



and illustrates the implementation of each capability through several complete, operational examples. You'll start with simple web apps, then incrementally expand and extend them with state-of-the-art features. All example source code is available on GitHub, and additional resources are available on the author's companion site, [learningpwa.com](http://learningpwa.com). Register your book for convenient access to downloads, updates, and/or corrections as they become available. See inside book for details.

[Making the Web Work](#) Apr 02 2020 There are no other books that examine the effectiveness and benefits of having well designed and created web applications. This guide includes case studies that are well-known, global, and emphasize the points and theories discussed. It covers all aspects involved of creating the effective application in concise and easy to understand ways.

### **Real-Time Web Application Development**

Aug 26 2019 Design, develop, and deploy a real-world web application by leveraging modern open source technologies. This book shows you how to use ASP.NET Core to build cross-platform web applications along with SignalR to enrich the application by enabling real-time communication between server and clients. You will use Docker to containerize your application, integrate with GitHub to package the application, and provide continuous deployment to Azure's IaaS platform. Along the way, Real-Time Web Application Development covers topics including designing a Materialize CSS theme, using a test-driven development approach with xUnit.net, and securing your application with the OAuth 2.0 protocol. To further your understanding of the technology, you will learn logging and exception handling; navigation using view components; and how to work with forms and validations. The rich code samples from this book can be used to retrofit or upgrade existing ASP.NET Core applications.

What You Will Learn Design and develop a real-world web application Implement security and data storage with OAuth2 and Azure Table Storage Orchestrate real-time notifications through SignalR Use GitHub and Travis CI for continuous integration of code Master Docker containerization and continuous deployment with Docker Cloud to Azure Linux virtual

machines Who This Book Is For Developers and software engineers interested in learning an end-to-end approach to application development using Microsoft technologies.

[Web Application Security](#) Jun 28 2022 While many resources for network and IT security are available, detailed knowledge regarding modern web application security has been lacking—until now. This practical guide provides both offensive and defensive security concepts that software engineers can easily learn and apply. Andrew Hoffman, a senior security engineer at Salesforce, introduces three pillars of web application security: recon, offense, and defense. You'll learn methods for effectively researching and analyzing modern web applications—including those you don't have direct access to. You'll also learn how to break into web applications using the latest hacking techniques. Finally, you'll learn how to develop mitigations for use in your own web applications to protect against hackers. Explore common vulnerabilities plaguing today's web applications Learn essential hacking techniques attackers use to exploit applications Map and document web applications for which you don't have direct access Develop and deploy customized exploits that can bypass common defenses Develop and deploy mitigations to protect your applications against hackers Integrate secure coding best practices into your development lifecycle Get practical tips to help you improve the overall security of your web applications

[Learning Web App Development](#) Nov 02 2022 Grasp the fundamentals of web application development by building a simple database-backed app from scratch, using HTML, JavaScript, and other open source tools. Through hands-on tutorials, this practical guide shows inexperienced web app developers how to create a user interface, write a server, build client-server communication, and use a cloud-based service to deploy the application. Each chapter includes practice problems, full examples, and mental models of the development workflow. Ideal for a college-level course, this book helps you get started with web app development by providing you with a solid grounding in the process. Set up a basic workflow with a text editor, version control system, and web browser Structure a user interface with HTML, and

include styles with CSS Use JQuery and JavaScript to add interactivity to your application Link the client to the server with AJAX, JavaScript objects, and JSON Learn the basics of server-side programming with Node.js Store data outside your application with Redis and MongoDB Share your application by uploading it to the cloud with CloudFoundry Get basic tips for writing maintainable code on both client and server

**Developing Large Web Applications** Oct 01 2022 How do you create a mission-critical site that provides exceptional performance while remaining flexible, adaptable, and reliable 24/7? Written by the manager of a UI group at Yahoo!, *Developing Large Web Applications* offers practical steps for building rock-solid applications that remain effective even as you add features, functions, and users. You'll learn how to develop large web applications with the extreme precision required for other types of software. Avoid common coding and maintenance headaches as small websites add more pages, more code, and more programmers Get comprehensive solutions for refining HTML, CSS, JavaScript, PHP, and Ajax for large-scale web applications Make changes in one place that ripple through all affected page elements Embrace the virtues of modularity, encapsulation, abstraction, and loosely coupled components Use tried-and-true techniques for managing data exchange, including working with forms and cookies Learn often-overlooked best practices in code management and software engineering Prepare your code to make performance enhancements and testing easier

**Ajax for Web Application Developers** Apr 26 2022 Reusable components and patterns for Ajax-driven applications Ajax is one of the latest and greatest ways to improve users' online experience and create new and innovative web functionality. By allowing specific parts of a web page to be displayed without refreshing the entire page, Ajax significantly enhances the experience of web applications. It also lets web developers create intuitive and innovative interaction processes. *Ajax for Web Application Developers* provides the in-depth working knowledge of Ajax that web developers need to take their web applications to the next level. The book shows how to create an Ajax-driven web

application from an object-oriented perspective, and it includes discussion of several useful Ajax design patterns. This detailed guide covers the creation of connections to a MySQL database with PHP 5 via a custom Ajax engine and shows how to gracefully format the response with CSS, JavaScript, and XHTML while keeping the data tightly secure. It also covers the use of four custom Ajax-enabled components in an application and how to create each of them from scratch. The final section of the book combines the individual code examples and techniques from earlier chapters of the book into one larger, Ajax-driven application—an internal web mail application that can be used in any user-based application, such as a community-based web application. Readers will learn not only how to create and use their own reusable Ajax components in this application but also how to connect their components to any future Ajax applications that they might build. *Web Development/Ajax/JavaScript*

**Web Application Design Patterns** Jan 24 2022 Ever notice that—in spite of their pervasiveness—designing web applications is still challenging? While their benefits motivate their creation, there are no well-established guidelines for design. This often results in inconsistent behaviors and appearances, even among web applications created by the same company. Design patterns for web applications, similar in concept to those for web sites and software design, offer an effective solution. In *Web Application Design Patterns*, Pawan Vora documents design patterns for web applications by not only identifying design solutions for user interaction problems, but also by examining the rationale for their effectiveness, and by presenting how they should be applied. Design interfaces faster, with a better rationale for the solutions you choose. Learn from over more than 100 patterns, with extensive annotation on use and extension. Take a short-cut into understanding the industry with more than 500 full-color screenshots.

**Web Applications** Sep 27 2019 This text explores the core concepts central to the development of three-tier, client-server Web applications. The heart of the book features a thorough exploration of concepts such as dynamically generated Web pages, session state, cookies,

database support and search capabilities.

*Building Web Applications with Erlang* Jun 04 2020 "Working with REST and Web-Sockets on Yaws"--Cover.

**Engineering Web Applications** Oct 21 2021 Nowadays, Web applications are almost omnipresent. The Web has become a platform not only for information delivery, but also for eCommerce systems, social networks, mobile services, and distributed learning environments. Engineering Web applications involves many intrinsic challenges due to their distributed nature, content orientation, and the requirement to make them available to a wide spectrum of users who are unknown in advance. The authors discuss these challenges in the context of well-established engineering processes, covering the whole product lifecycle from requirements engineering through design and implementation to deployment and maintenance. They stress the importance of models in Web application development, and they compare well-known Web-specific development processes like WebML, WSDM and OOHDM to traditional software development approaches like the waterfall model and the spiral model. .

*JavaScript Web Applications* May 28 2022 Building rich JavaScript applications that bring a desktop experience to the Web requires moving state from the server to the client side—not a simple task. This hands-on book takes proficient JavaScript developers through all the steps necessary to create state-of-the-art applications, including structure, templating, frameworks, communicating with the server, and many other issues. Throughout the book, you'll work with real-world example applications to help you grasp the concepts involved. Learn how to create JavaScript applications that offer a more responsive and improved experience. Use the Model-View-Controller (MVC) pattern, and learn how to manage dependencies inside your application Get an introduction to templating and data binding Learn about loading remote data, Ajax, and cross-domain requests Create realtime applications with WebSockets and Node.js Accept dropped files and upload data with progress indicators Use major frameworks and libraries, including jQuery, Spine, and Backbone Write tests and use the console to debug your applications Get deployment best

practices, such as caching and minification  
**Progressive Web Apps** Mar 14 2021 Summary Progressive Web Apps teaches you PWA design and the skills you need to build fast, reliable websites by taking you step-by-step through real world examples in this practical tutorial. Foreword by Addy Osmani, Google. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology Offline websites that work. Near-instant load times. Smooth transitions between high/low/no bandwidth. Fantasy, right? Not with progressive web applications. PWAs use modern browser features like push notifications, smart caching, and Service Workers to manage data, minimize server usage, and allow for unstable connections, giving you better control and happier customers. Better still, all you need to build PWAs are JavaScript, HTML, and the easy-to-master techniques you'll find in this book. About the Book Progressive Web Apps teaches you PWA design and the skills you need to build fast, reliable websites. There are lots of ways you can use PWA techniques, and this practical tutorial presents interesting, standalone examples so you can jump to the parts that interest you most. You'll discover how Web Service Workers vastly improve site loading, how to effectively use push notifications, and how to create sites with a no-compromise offline mode. What's Inside Improved caching with Service Workers Using manifest files and HTML markup Push notifications Offline-first web designs Techniques for data synchronization About the Reader Written for readers with experience developing websites using HTML, CSS, and JavaScript. About the Author Dean Alan Hume is a coder, author, and Google Developer Expert. He's passionate about web performance and user experience. Table of Contents PART 1 - DEFINING PROGRESSIVE WEB APPS Understanding Progressive Web Apps First steps to building a Progressive Web App PART 2 - FASTER WEB APPS Caching Intercepting network requests PART 3 - ENGAGING WEB APPS Look and feel Push notifications PART 4 - RESILIENT WEB APPLICATIONS Offline browsing Building more resilient applications Keeping your data synchronized PART 5 - THE FUTURE OF

PROGRESSIVE WEB APPS Streaming data  
Progressive Web App troubleshooting The future  
is looking good

**Go Web Programming** Jul 06 2020 Summary  
Go Web Programming teaches you how to build  
scalable, high-performance web applications in  
Go using modern design principles. Purchase of  
the print book includes a free eBook in PDF,  
Kindle, and ePub formats from Manning  
Publications. About the Technology The Go  
language handles the demands of scalable, high-  
performance web applications by providing  
clean and fast compiled code, garbage  
collection, a simple concurrency model, and a  
fantastic standard library. It's perfect for writing  
microservices or building scalable, maintainable  
systems. About the Book Go Web Programming  
teaches you how to build web applications in Go  
using modern design principles. You'll learn how  
to implement the dependency injection design  
pattern for writing test doubles, use concurrency  
in web applications, and create and consume  
JSON and XML in web services. Along the way,  
you'll discover how to minimize your dependence  
on external frameworks, and you'll pick up  
valuable productivity techniques for testing and  
deploying your applications. What's Inside  
Basics Testing and benchmarking Using  
concurrency Deploying to standalone servers,  
PaaS, and Docker Dozens of tips, tricks, and  
techniques About the Reader This book assumes  
you're familiar with Go language basics and the  
general concepts of web development. About the  
Author Sau Sheong Chang is Managing Director  
of Digital Technology at Singapore Power and an  
active contributor to the Ruby and Go  
communities. Table of Contents PART 1 GO AND  
WEB APPLICATIONS Go and web applications  
Go ChitChat PART 2 BASIC WEB  
APPLICATIONS Handling requests Processing  
requests Displaying content Storing data PART 3  
BEING REAL Go web services Testing your  
application Leveraging Go concurrency  
Deploying Go

**Wordpress Web Application Development**  
May 04 2020 Learn in easy stages how to rapidly  
build leading-edge web applications from  
scratch. About This Book Develop powerful web  
applications rapidly with Wordpress Explore the  
significant features and improvements  
introduced in Wordpress 4.7 by learning the

numerous tips and techniques in this book.  
Unleash the power of REST API endpoints to  
make your interaction with websites new and  
innovative. Who This Book Is For This book is  
targeted at Wordpress developers and designers  
who want to develop quality web applications  
within a limited time frame and maximize their  
profits. A prior knowledge of basic web  
development and design is assumed. What You  
Will Learn Develop extendable plugins with the  
use of Wordpress features in core modules  
Develop pluggable modules to extend the core  
features of Wordpress as independent modules  
Manage permissions for a wide range of content  
types in web applications based on different user  
types Follow Wordpress coding standards to  
develop reusable and maintainable code Build  
and customize themes beyond conventional web  
layouts Explore the power of core database  
tables and understand the limitations when  
designing database tables for large applications  
Integrate open source modules into Wordpress  
applications to keep up with the latest open  
source technologies Customize the Wordpress  
admin section and themes to create the look and  
feel of a typical web application In Detail  
Wordpress is one of the most rapidly expanding  
markets on the Web. Learning how to build  
complex and scalable web applications will give  
you the ability and knowledge to step into the  
future of Wordpress. Wordpress 4.7 introduces  
some exciting new improvements and several  
bug fixes, which further improve the entire  
development process. This book is a practical,  
scenario-based guide to expanding the power of  
the Wordpress core modules to develop modular  
and maintainable real-world applications from  
scratch. This book consistently emphasizes  
adapting Wordpress features into web  
applications. It will walk you through the  
advanced usages of existing features such as  
access controlling; database handling; custom  
post types; pluggable plugins; content  
restrictions; routing; translation; caching; and  
many more, while you build the backend of a  
forum management application. This book  
begins by explaining how to plan the  
development of a web application using  
Wordpress' core features. Once the core  
features are explained, you will learn how to  
build an application by extending them through

custom plugin development. Finally, you will explore advanced non-functional features and application integration. After reading this book, you will have the ability to develop powerful web applications rapidly within limited time frames. Style and approach An extensive, practical guide that explains how to adapt WordPress features, both conventional and trending, for web applications.

### **Reactive Web Applications** Nov 09 2020

Summary Reactive Web Applications teaches web developers how to benefit from the reactive application architecture and presents hands-on examples using the Play framework. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology Reactive applications build on top of components that communicate asynchronously as they react to user and system events. As a result, they become scalable, responsive, and fault-tolerant. Java and Scala developers can use the Play Framework and the Akka concurrency toolkit to easily implement reactive applications without building everything from scratch. About the Book Reactive Web Applications teaches web developers how to benefit from the reactive application architecture and presents hands-on examples using Play, Akka, Scala, and Reactive Streams. This book starts by laying out the fundamentals required for writing functional and asynchronous applications and quickly introduces Play as a framework to handle the plumbing of your application. The book alternates between chapters that introduce reactive ideas (asynchronous programming with futures and actors, managing distributed state with CQRS) and practical examples that show you how to build these ideas into your applications. What's Inside Reactive application architecture Basics of Play and Akka Examples in Scala Functional and asynchronous programming About Reader Description For readers comfortable programming with a higher-level language such as Java or C#, and who can read Scala code. No experience with Play or Akka needed. About the Author Manuel Bernhardt is a passionate engineer, author, and speaker. As a consultant, he guides companies through the technological and organizational transformation to distributed computing. Table

of Contents PART 1 GETTING STARTED WITH REACTIVE WEB APPLICATIONS Did you say reactive? Your first reactive web application Functional programming primer Quick introduction to Play PART 2 CORE CONCEPTS Futures Actors Dealing with state Responsive user interfaces PART 3 ADVANCED TOPICS Reactive Streams Deploying reactive Play applications Testing reactive web applications *Web Application Security, A Beginner's Guide* Jun 16 2021 Security Smarts for the Self-Guided IT Professional "Get to know the hackers—or plan on getting hacked. Sullivan and Liu have created a savvy, essentials-based approach to web app security packed with immediately applicable tools for any information security practitioner sharpening his or her tools or just starting out." —Ryan McGeehan, Security Manager, Facebook, Inc. Secure web applications from today's most devious hackers. *Web Application Security: A Beginner's Guide* helps you stock your security toolkit, prevent common hacks, and defend quickly against malicious attacks. This practical resource includes chapters on authentication, authorization, and session management, along with browser, database, and file security—all supported by true stories from industry. You'll also get best practices for vulnerability detection and secure development, as well as a chapter that covers essential security fundamentals. This book's templates, checklists, and examples are designed to help you get started right away. *Web Application Security: A Beginner's Guide* features: Lingo--Common security terms defined so that you're in the know on the job IMHO--Frank and relevant opinions based on the authors' years of industry experience Budget Note--Tips for getting security technologies and processes into your organization's budget In Actual Practice--Exceptions to the rules of security explained in real-world contexts Your Plan--Customizable checklists you can use on the job now Into Action--Tips on how, why, and when to apply new skills and techniques at work [Building Web Apps with WordPress](#) Dec 23 2021 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  
*Web Application Design and Implementation* Sep 19 2021 Helps learn how to combine different technologies to create sophisticated, database-driven Web sites. This book allows readers to gain the programming knowledge needed to build a database-driven Web site using a step-by-step approach. It explains each stage of Web site development - from installation to production of the site.