Secure Your Node.js Web Application: Keep Attackers Out and Users Happy

By Karl Duuna

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Cyber-criminals have your web applications in their crosshairs. They search for and exploit common security mistakes in your web application to steal user data. Learn how you can secure your Node.js applications, database and web server to avoid these security holes. Discover the primary attack vectors against web applications, and implement security best practices and effective countermeasures. Coding securely will make you a stronger web developer and analyst, and you'll protect your users.

Bake security into your code from the start. See how to protect your Node.js applications at every point in the software development life cycle, from setting up the application environment to configuring the database and adding new functionality. You'll follow application security best practices and analyze common coding errors in applications as you work through the real-world scenarios in this book.

Protect your database calls from database injection attacks and learn how to securely handle user authentication within your application. Configure your servers securely and build in proper access controls to protect both the web application and all the users using the service. Defend your application from denial of service attacks. Understand how malicious actors target coding flaws and lapses in programming logic to break in to web applications to steal information and disrupt operations. Work through examples illustrating security methods in Node.js. Learn defenses to protect user data flowing in and out of the application.

By the end of the book, you'll understand the world of web application security, how to avoid building web applications that attackers consider an easy target, and how to increase your value as a programmer.

What You Need:

In this book we will be using mainly Node.js. The book covers the basics of

JavaScript and Node.js. Since most Web applications have some kind of a database backend, examples in this book work with some of the more popular databases, including MySQL, MongoDB, and Redis.

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Editorial Review

Review

"The Node.js community has been waiting for a book like this. For all of Node.js's ease, it comes at a cost: security. This book eases that cost and removes the often-overlooked downsides of Node.js development."
---Glen Messenger, CIO, Ditno

"A thorough and clear explanation of web app security, from the database to the app server to the client. Highly recommended for developers of node-based apps!"
---Loren Sands-Ramshaw, CTO, @parlay

"If you want to learn how to secure your Node.js apps, there's no way around Karl Düüna's book. In a clear and concise manner the author shows the ins and outs of making your Node.js app an impenetrable fortress. Not a Node.js user? No problem - much of what's covered in Karl Düüna's book can be used in other environments with little change."
---Brian Schau, Developer, Rovsing Applications ApS

Every node.js team should have Karl's book under their belt. Especially if you are seasoned developer entering Node's ecosystem, this book is great to bring you up to speed with what you can expect from the darker corners of the Internet.
---Lukáš Linhart, CTO, Apiary Inc

Required reading for anyone doing web development. In addition to helping you write more secure code it also helps you write better code as Karl's book covers all the relevant topics while also presenting the right ways to tackle these.
---Andris Reinman, author of Nodemailer

About the Author

Karl Duuna is a technology- and security-oriented application developer. He graduated cum laude with a Mechatronics B.A and Cyber Security M.A from Tallinn University of Technology. He is co-founder and owner of several technology-oriented companies.

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Michael Cooke:

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