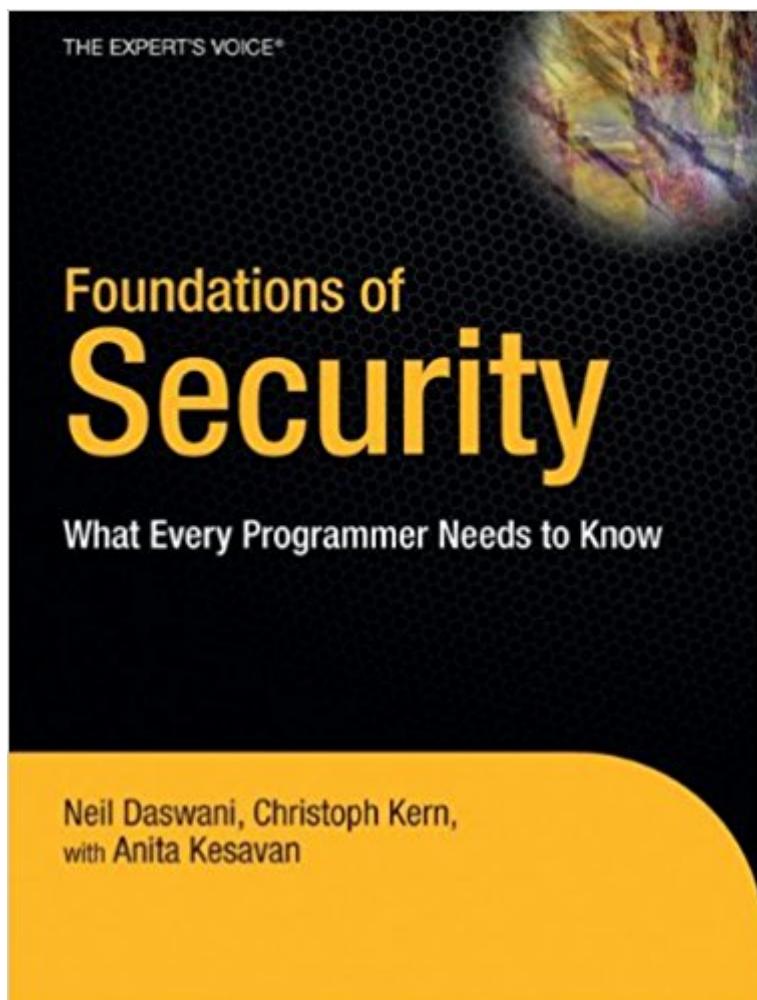


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Foundations Of Security: What Every Programmer Needs To Know (Expert's Voice)



Synopsis

Foundations of Security: What Every Programmer Needs to Know teaches new and current software professionals state-of-the-art software security design principles, methodology, and concrete programming techniques they need to build secure software systems. Once you're enabled with the techniques covered in this book, you can start to alleviate some of the inherent vulnerabilities that make today's software so susceptible to attack. The book uses web servers and web applications as running examples throughout the book. For the past few years, the Internet has had a "wild, wild west" flavor to it. Credit card numbers are stolen in massive numbers. Commercial web sites have been shut down by Internet worms. Poor privacy practices come to light and cause great embarrassment to the corporations behind them. All these security-related issues contribute at least to a lack of trust and loss of goodwill. Often there is a monetary cost as well, as companies scramble to clean up the mess when they get spotlighted by poor security practices. It takes time to build trust with users, and trust is hard to win back. Security vulnerabilities get in the way of that trust. Foundations of Security: What Every Programmer Needs To Know helps you manage risk due to insecure code and build trust with users by showing how to write code to prevent, detect, and contain attacks. The lead author co-founded the Stanford Center for Professional Development Computer Security Certification. This book teaches you how to be more vigilant and develop a sixth sense for identifying and eliminating potential security vulnerabilities. You'll receive hands-on code examples for a deep and practical understanding of security. You'll learn enough about security to get the job done.

Table of Contents Security Goals Secure Systems Design Secure Design Principles Exercises for Part 1 Worms and Other Malware Buffer Overflows Client-State Manipulation SQL Injection Password Security Cross-Domain Security in Web Applications Exercises for Part 2 Symmetric Key Cryptography Asymmetric Key Cryptography Key Management and Exchange MACs and Signatures Exercises for Part 3

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Customer Reviews

An excellent book for new programmers. The first part of the book provides a very good overview of security concepts. Chapters 5-10 detail different attacks and their defense. At 290 pages, the authors don't waste the reader's time. Information is well covered with enough detail for most readers. Throughout the book the authors present code examples on exploits and their defense. Even though the examples are written in different languages, the authors explain the code clearly. The reader doesn't have to be familiar with the particular language. I haven't written anything in Java in over six years, but had no problem understand the Java examples. If you are a new programmer or haven't read a book on security recently, this would be the book.

Our collective security against threats such as phishing, denial of service and online fraud in general depends not only on our own actions, but also on those of others. While other users may affect your security by their actions (or lack thereof), the most important person in terms of your security is the software developer. This is a book written to help software developers identify common problems and create security-conscious designs. This easily accessible book describes common problems in an instructive manner. It explains what will and what will not work, reviews good design principles, and offers an overview of commonly used cryptographic techniques. If every developer lived by the guidelines of this book, we would be in a much better shape than we currently are.

I was wandering around the RSA Conference show floor and was pleasantly surprised to stumble across Neil Daswani autographing this book for people. I read a lot of security books and I think this is one of the most clearly written books I have ever read. I am not a programmer I am a software auditor / tester specifically focusing on security. I understand the security, this book helped me have a better understanding of how it applies to programming. Highly recommend.

While some of the good security books for software developers need to be updated, this is, in my

opinion, a much needed new security book for programmers. It is clear yet not too formal with good examples. Even if you have done a bit of security programming, chapters 7 and on are definitely worth the read. Although this book doesn't have all the answers (e.g. no comparison of web programming languages), web programmers will not be disappointed and my guess is that most web programmers need to read this book. The authors work at Google and are dealing with some of the nastiest problems the Internet has to offer. They are very good communicators, have written some of the best recent papers and I'm glad to see Neil Daswani just started a blog on blogspot.

This book teaches new and current software professionals state-of-the-art software security design principles, methodology, and concrete programming techniques they need to build secure software systems.

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