ZIONSECURITY
PREVENT-PROTECT-DETECT-ACT

BUILDING SECURE API'S AND WEB APPLICATIONS

BY JIM MANICO

January 29-30, 2019

Why participate?

The major cause of webservice and web application insecurity is insecure software development practices. This highly intensive and interactive 2-day course provides essential application security training for web application and webservice developers and architects.

The class is a combination of lecture, security testing demonstration and code review. Students will learn the most common threats against applications. More importantly, students will learn how to code secure web solutions via defense-based code samples.

As part of this course, we will explore the use of third-party security libraries and frameworks to speed and standardize secure development. We will highlight production quality and scalable controls from various languages and frameworks. This course will include secure coding information for Java, PHP, Python, Javascript and .NET programmers, but any software developer building web applications and webservices will benefit.

Agenda

Day 1: Web Application Security

- Introduction to Application Security
- Introduction to Security Goals and Threats
- HTTP Security Basics
- CORS and HTML5 Considerations
- XSS Defense
- Content Security Policy
- Intro to Angular.JS Security
- Intro to React.JS Security
- SQL and other Injection
- Cross Site Request Forgery
- File Upload and File IO Security
- Deserialization Security
- Input Validation Basics
- OWASP Top Ten 2017
- OWASP ASVS

Day 2: API Secure Coding

- Webservice, Microservice and REST Security
- Authentication and Session Management
- Access Control Design
- OAuth Security
- OpenID Connect Security
- HTTPS/TLS Best Practices
- 3rd Party Library Security Management
- Application Layer Intrusion Detection

We end day 2 with a competitive hacking lab. It's a fun and informative way to end the course.

Bio Trainer

Jim Manico is the founder of Manicode Security where he trains software developers on secure coding and security engineering. He is an a investor/advisor for Signal Sciences and BitDiscovery. Jim is also a frequent speaker on secure software practices, is a member of the JavaOne rockstar speaker and Java Champion community and is the author of "Iron-Clad Java: Building Secure Web Applications" from McGraw-Hill and Oracle Press. Jim also volunteers for the OWASP foundation where he helps build application security standards and other documentation.

Requirements

Student Requirements: Familiarity with the technical details of building web applications and web services from a software engineering point of view.
Laptop Requirements: Any laptop that can run an updated web browser and "Burp Community Edition".

Practical

January 29-30, 2019 - Tuesday and Wednesday, from 9 AM till 5 PM

AE (Architects of Business & ICT) - Interleuvenlaan 27b, 3001 Heverlee (Leuven)

Price: 1495 euro p.p. - 10% discount for AE, ZIONSECURITY & SecureLink customers

More info? Check our website www.zionsecurity.com