CERTIFICATE

XIMEDES

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Secure Coding on the JVM

2-Day Course

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This course has taught the student essential knowledge and skills for developing secure code for Java web applications. The course consisted of the following topics:

- Fundamentals (OWASP, CIA, Defense in depth)
- Input Validation, Normalization & Unicode
- Password Management
- Session Management (JWT, session IDs)
- Cross-Site Request Forgery
- Same-Origin Policy and CORS
- Injection Attacks
  (XSS, SQL injection, XXE, Log injection, Prompt Injection)
- Broken Access Control
- Supply chain vulnerabilities
  (CVE, Java ecosystem, JavaScript ecosystem)
- Sensitive Data Leakage
- PCI DSS

Throughout the course, the student actively engaged in hands-on exercises using a customized Java + JavaScript application with intentionally embedded vulnerabilities.