ABDERRAHIM **MAYABA**

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Summary

Experienced Application Security Engineer with a Master's degree in Software Engineering and a background spanning both Application Security and SOC analysis. Skilled in securing web applications, APIs, and cloud-native services by embedding security into the SDLC and conducting penetration tests and vulnerability assessments. Strong communicator with proven experience mentoring developers, leading threat modeling, and driving secure engineering culture while leveraging prior SOC expertise in incident detection and response.

Education

Master of Engineering: **Software Engineering**   **09/2021**
Concordia University   Montréal, QC

Bachelor of Science: **Computer Engineering**   **05/2015**
Yanbu University College   Yanbu, SA

Experience

Application Security Engineer / Java Security Developer   **05/2023 to Present**
WorkJam

- Conduct code reviews to identify vulnerabilities, document findings, and implement necessary code changes to mitigate identified vulnerabilities, ensuring secure and resilient software solutions.
- Conduct internal security audits and penetration testing to proactively identify security gaps and vulnerabilities; identified and remediated several critical and high vulnerabilities.
- Review pull requests (PRs) to detect insecure coding patterns and collaborate with developers to promote secure coding practices.
- Evaluate software architecture to ensure it meets security standards, identifying risks and recommending improvements for secure design.
- Develop integration testing to ensure that mitigated vulnerabilities remain resolved and are not accidentally reintroduced during future code changes or migrations.
- Utilize security tools such as Static Application Security Testing (SAST), Dynamic Application Security Testing (DAST), and other automated scanning tools to detect vulnerabilities.
- Help in resolving production incidents that affect customers by analyzing root causes and implementing rapid mitigation strategies.
- Administer Web Application Firewalls (WAF) to protect applications from malicious traffic and automated attacks.
- Monitor emerging vulnerability trends, analyze potential impacts, and promptly implement mitigation strategies to reduce risk exposure.
- Collaborate with DevOps and cloud teams to integrate security into CI/CD pipelines and implement DevSecOps practices.
- Delivered developer security training on OWASP Top 10 and emerging threats.

Java AI Trainer (Part-Time)   **03/2024 to Present**

Outlier AI
- Compare and evaluate AI-generated Java code to ensure accuracy and quality.

Open-source Contributor (Part-Time)   **06/2023 to Present**
Eclipse Steady
- Contributed to the Eclipse Steady reachability analyzer (written in Java) by implementing updates to enhance support for Java 17+, ensuring compatibility with newer Java versions and improving overall project stability.

Java Developer   **07/2022 to 05/2023**
Morgan Stanley
- Renovated a foundational legacy Java system, enhancing its performance, maintainability, and security.
- Design, implement and maintain back-end Java-based applications for anomaly detection.
- Analyze user requirements and change requests and contribute to all stages of SDLC.
- Develop technical designs and infrastructure for application development.
- Support continuous improvement, investigating alternatives and technologies, and presenting for architectural review.
- Collaborated with security teams to ensure compliance with secure coding standards and mitigated OWASP Top 10 vulnerabilities in financial applications.

Security Operation Center (SOC) Analyst / Automation Developer   **10/2020 to 04/2022**
Ebttikar Technology
- Monitored and analyzed security alerts from SIEM platforms, IDS/IPS, and endpoint protection solutions to detect and respond to cybersecurity threats.
- Conducted thorough malware analysis and threat hunting to identify indicators of compromise (IOCs) and potential attack vectors.
- Performed security log analysis and correlation to identify patterns of suspicious activity and potential security breaches
- Designed and implemented automation solutions to minimize resource usage in daily tasks.
- Developed a web IP/Hash reputation lookup system, reducing the lookup process from hours to real-time.

IT Team Leader / Aviation Systems Administrator   **09/2016 to 08/2019**
TAV Technologies
- Provided direct support to business users in a global delivery team.
- Maintained functionality, performance, availability, and security of aviation systems.
- Communicated effectively with over 50 stakeholders in an international airport, ensuring clear understanding of project requirements and facilitating successful project execution.

Information Technologies Specialist   **10/2015 to 02/2016**
Atu Duty Free
- Provided 24/7 production support and maintained functionality and security of aviation systems.

Cooperative Education Student   **02/2015 to 08/2015**
YASREF
- Designed and programmed an information system in Java to manage mobile bills, reducing task time from approximately 25 days to real-time.

Skills

- **Soft Skills:** Problem Solving skills, Fast Learner, Teamwork, Effective Communication, Autonomy, Precision, Adaptability, Collaborative, Innovative, Technical Documentation, Security Awareness, Agile Environment Experience.
- **Application Security:** Penetration Testing, Secure SDLC, Application Security Reviews, Threat Modeling, Secure Architecture Design, SAST, DAST, SCA, IaC Scanning, Snyk, Veracode, SonarCloud, Acunetix, Burp Suite, Rapid7 Insight Platform, Sumo Logic, Spring Security, Code Audits, OWASP Security Standards.
- **Programming:** Object-Oriented Coding and Design, Java, Python, JavaScript/TypeScript, Design Patterns, Software Architecture, Microservice Architecture, Agile Development, Spring Boot, Spring Security, REST API, GraphQL, Web Services, Java Security Frameworks.
- **Cybersecurity:** Cryptography, Identity Management, Data Protection, Multi-factor Authentication, Access Controls, Security Frameworks, Threat Analysis, Risk Assessment.
- **Databases:** SQL, NoSQL, PostgreSQL, MongoDB, MySQL, Redis, JDBC, Hibernate, RocksDB.
- **DevOps:** Git, GitHub, BitBucket, Docker, VMs, Linux, CI/CD, Harness, Jenkins, AWS products and services, Google Cloud Platform (GCP), Terraform.

Projects

- **Java Reachability Analyzer:** Developed a Java Reachability Analyzer, a tool designed to pinpoint vulnerabilities within third-party libraries. This is accomplished by constructing a call graph of the project and its dependencies, actively seeking paths from project entry points to potentially vulnerable code identified from Snyk scan results. This initiative significantly bolsters vulnerability detection capabilities, reinforcing overall security protocols.
- **Java Static Code Analyzer:** Developed a Java static code analyzer that utilizes the Abstract Syntax Tree (AST) to detect and log the presence of destructive wrapping in exception handling, which is an anti-pattern that results in losing the stack trace. Used tools: Eclipse JDT, Apache Maven, Log4j.
- **Python Steam Web Crawler:** Developed a Python Web Crawler that crawls the STEM gaming platform to extract data that is later used to get insights for the game developers. Used tools: Scrapy, Pandas, NumPy, and Selenium.
- **Employee Billing System:** Designed and programmed a phone billing system that automatically calculates the portion of the phone bill that the employee must pay, which reduced the time of calculating the bill from several days to real-time.

Certifications

- **Certified Security Analyst (ECSA) - EC-Council**.
- **Certified Ethical Hacker (CEH) - EC-Council**.
- **CCNA Routing and Switching - Cisco**.
- **CompTIA Linux+ - CompTIA**.
- **CompTIA Security+ - CompTIA.**
- **Junior Penetration Tester (eJPT) - INE**.
- **Advanced Web Application Penetration Testing (eWPTX) (*in progress) – INE.**
- **Certified Professional Penetration Tester (eCPPT) (*in progress) - INE**.

References

Will be provided upon request