
ABDERRAHIM MAYABA

CANADA | (514) 476-7970 | ammayaba@gmail.com | [linkedin.com/in/mayabaa](https://www.linkedin.com/in/mayabaa)

Summary

Experienced Software Engineer and Security Developer with a master's degree in software engineering. Skilled in vulnerability management, security reviews, and automation solutions. Adept at using automated tools for detection and triage, and collaborating cross-functionally for remediation. Committed to continuous improvement and effective communication to translate expertise into impactful security practices.

Education

Master of Engineering: Software Engineering

Concordia University

09/2021

Montréal, QC

Bachelor of Science: Computer Engineering

Yanbu University College

05/2015

Yanbu, SA

Experience

Java Security Developer

05/2023 to Present

WorkJam

- Developed a Java reachability analyzer designed to identify vulnerabilities in third-party code. This tool integrates with SCA analyzer's output to conduct thorough reachability analysis, enhancing vulnerability management in third-party libraries.
- Streamlined the process of converting SCA analyzer's output into manageable and comprehensible tasks for developers within analyzed pull requests, improving efficiency and security.
- Conduct security reviews and assessments of applications and services to ensure high-security standards.
- Utilized Static Application Security Testing (SAST) and Dynamic Application Security Testing (DAST) tools to identify and remediate vulnerabilities in code and running applications.
- Developed automation solutions using Python and Java to enhance security operations and streamline processes.
- Perform threat modeling and static analysis of application codebases to identify and mitigate security risks.
- Collaborate with development teams to conduct code reviews and address security vulnerabilities in Java applications.
- Communicate effectively with cross-functional teams to understand project requirements and provide security guidance and solutions.
- Continuously improved security posture by regularly updating and refining security processes and tools, ensuring they stay current with emerging threats and industry best practices.

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.

Automation Developer / SOC Analyst

10/2020 to 04/2022

Ebtikar Technology

- 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.
- Conducted static code analyzing on suspicious code to identify malicious behavior, and to minimize technical and security risks of the banking systems.
- Provided real-time guidance to customers on network configuration, security settings and policies, and attack mitigation procedures.

IT Team Leader / Aviation Systems Administrator

09/2016 to 08/2019

TAV Technologies

- Managed team progress to meet SLA and enhance user experience.
- 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.
- Installed, configured, and deployed new PCs, Application Servers, and software.

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:** Continuous Learning, Problem Solving, Creativity, Curiosity, Fast Learner, Teamwork, Effective Communication Skills, Interest in new technologies, Collaborative, Innovative, Flexible.
- **Application Security:** Application security reviews, Threat modeling, Secure architecture design, SAST, DAST, SCA, IaC scanning, Snyk, SonarCloud, Acunetix, Rapid7 Insight Platform, Sumo Logic.
- **Programming:** Object-Oriented Coding and Design, Java, Python, Design Patterns, Software Architecture, Microservice Architecture, Agile Development, Spring Boot, REST API.
- **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 in analyzing information systems and processes to enhance the security and defense the system.
- **Certified Ethical Hacker (CEH) - EC-Council:** Certified in conduction penetration testing to locate weaknesses in the system in enhance the security.
- **CompTIA Linux+ - CompTIA:** Certified in configuring and managing Linux-based systems including virtual machines and containers.
- **CCNA Routing and Switching - Cisco:** Certified in designing, configuring, and implementing computer networks and services.
- **CompTIA Security+ - CompTIA:** Certified in assessing the security posture, and to monitor and secure hybrid environments.
- **Junior Penetration Tester (eJPT) - eLearnSecurity:** Certified in conducting penetration testing to enhance the security.
- **Computer Hacking Forensic Investigator (CHFI) - EC-Council:** Certified in conducting the best practices directly after the hacking incident.
- **Certified Professional Penetration Tester (eCPPT) (*in progress) - eLearnSecurity:** Certified in conducting vulnerability assessment and penetration testing of web application to enhance the security.

Why I'm a Strong Fit

- **The Perfect Combo:** With a strong background in both software development and cybersecurity, I have the expertise and certifications to code with security in mind, ensuring robust and secure applications from the ground up.
- **Vulnerability Management Expertise:** I have significant experience in identifying, managing, and remediating vulnerabilities. My work in developing and utilizing tools for automated vulnerability detection and triage aligns perfectly with Stripe's proactive approach to security.
- **Strong Collaboration Skills:** My ability to effectively communicate and collaborate with cross-functional teams has been critical in driving the remediation of security issues. I understand the importance of working closely with developers to enhance security without impeding development workflows.
- **Commitment to Continuous Improvement:** I am dedicated to continuously improving security processes and tools. My efforts in refining security practices and integrating advanced security measures have significantly enhanced the security posture of previous projects.