

MOHAMAD OWIDATE

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PROFESSIONAL SUMMARY

Software Engineering student with hands-on experience building scalable backend services and full-stack web applications using Node.js, TypeScript, SQL, and Python. Completed projects in machine learning–based threat detection and system tools, demonstrating strong programming foundations. Passionate about generative AI, LLMs, and modern platform architectures, seeking an AI software engineering internship to contribute to agentic AI workflows.

TECHNICAL SKILLS

- **Languages:** Python, Java, C++, TypeScript, JavaScript
- **Backend & Web:** Node.js, REST API design and development, JWT authentication and verification, HTML, CSS, SQL, Microservices
- **Cybersecurity & Networking:** Network fundamentals, port scanning, phishing detection, classical cryptography
- **AI & Tools:** Machine Learning fundamentals, automation scripting, Git/GitHub version control, Generative AI, AI-assisted Development Tools

PROJECTS

Phishing URL Detection (Machine Learning)

- Designed and trained a machine learning classification pipeline to detect phishing URLs and emails, integrating data preprocessing, feature extraction, and model evaluation stages
- Refined model performance through cross-validation and precision-recall analysis to ensure high accuracy in real-world threat detection
- Exposed the trained model via a REST API endpoint to facilitate seamless integration into security monitoring workflows

Network Port Scanner (Python)

- Built a high-performance network port scanner using Python asyncio to scan local and public networks concurrently, reducing scan time by over 50%
- Researched networking protocols and Python libraries to implement core scanning functionality, applying cybersecurity and networking fundamentals in a practical tool.

System Resource Monitor (C++)

- Currently developing a hardware monitoring tool in C++ that interacts directly with system hardware to track resource usage and diagnose performance issues.
- Applies low-level programming and systems knowledge as part of an ongoing cybersecurity-focused skill building track.

bug-free-guacamole – Full-Stack Web Application

- Built a complete full-stack web application end-to-end, including frontend, backend, and a SQL-based database layer.
- Deployed and hosted the application on a local network, gaining practical experience in the full web development and deployment lifecycle.

Password Generator

- Developed a secure password generation tool intended for integration into a future web application, designed to produce strong, randomized passwords.
- Verified password strength and randomness using third-party password-testing tools to validate security quality.

MyFetch – Custom System Info Tool (Python)

- Built a custom command-line system information tool from scratch in Python, inspired by neofetch, featuring a personalized ASCII logo.

Caesar Cipher Encryption/Decryption Tool

- Implemented Caesar cipher encryption and decryption logic independently without external assistance, reinforcing cryptography concepts shortly after completing related coursework.

WhatsApp Automated Messaging Tool (Python)

- Created an automation script using a Python WhatsApp library to send scheduled daily messages, applying scripting and task automation concepts.

Weather App

- Built a weather application that integrates with the OpenWeather API to retrieve and display real-time weather data.

Rock-Paper-Scissors Game (Java)

- Developed a desktop Rock-Paper-Scissors game in Java using the Swing framework to build the graphical user interface.

Sony Store – Team Project

- Collaborated with a team during first-year coursework to design and build an e-commerce style application, developing experience in collaborative software development workflows.

EDUCATION

Software Engineering / Cybersecurity