

# MOHAMAD OWIDATE

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## PROFESSIONAL SUMMARY

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Backend-focused software engineering student with a cybersecurity specialisation, experienced in building and deploying full-stack web applications, REST APIs, and microservices using Node.js, Express.js, JavaScript, and SQL. Proficient in Python, Java, and C++ with strong command of data structures, algorithms, and object-oriented design. Hands-on experience with Docker containerisation, Linux environments, Git/GitHub version control, and CI/CD workflows. Project portfolio spans machine learning-based threat detection, concurrent network scanning, and systems-level programming. Collaborative team player in agile/Scrum environments; self-driven in independent open-source projects.

## TECHNICAL SKILLS

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**Languages:** Python, Java, C++, TypeScript, JavaScript

**Web & Backend:** Node.js, Express.js, REST API design, JWT authentication, React, HTML, CSS, SQL

**Tools & Platforms:** Docker, Git/GitHub, Linux (CLI), Postman, VS Code

**Cloud & Deployment:** Dockerised microservices, local network deployment, REST API hosting

**Architecture:** Data Structures, OOP, Algorithms, Microservice Architecture, Agile/Scrum

**Cybersecurity:** Network scanning, phishing detection, port analysis, classical cryptography

**Other:** Machine learning (scikit-learn), automation scripting, unit testing, technical documentation

## EDUCATION

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### BAU University — Beirut, Lebanon

Bachelor of Science in Software Engineering / Cybersecurity | *Expected Graduation: May 2028*

Relevant coursework: Data Structures & Algorithms, Object-Oriented Analysis & Design, Network Fundamentals, Cybersecurity Principles, Database Systems

## PROJECTS

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### Phishing URL & Email Detector

*Python · scikit-learn · Node.js · Express.js · REST API · Docker · Microservices*

■ [github.com/owidate/phishing-detector](https://github.com/owidate/phishing-detector)

- Trained a machine learning classification model (scikit-learn) achieving **95%+ accuracy** distinguishing phishing vs legitimate URLs and emails across a 10,000-sample dataset.
- Containerised the model as a Dockerised microservice REST API using Node.js and Express.js, enabling plug-and-play integration with any web application.
- Documented the full pipeline — preprocessing, feature engineering, model evaluation, deployment — with flowcharts reviewed by stakeholders.

### Network Port Scanner

*Python · Threading · Socket Programming · Unit Testing · Documentation*

■ [github.com/owidate/port-scanner](https://github.com/owidate/port-scanner)

- Built a concurrent port scanner from scratch capable of scanning **1,000+ ports in under 3 seconds** using Python threading and socket programming.
- Implemented efficient data structures for result aggregation and developed a full unit-test suite validating scanning accuracy across local and public network targets.
- Produced technical documentation following agile principles for incremental delivery and ongoing maintenance.

## Full-Stack Task Manager Web Application

*Node.js · Express.js · SQL · JavaScript · React · HTML/CSS · Docker*

■ [github.com/owidate/task-manager](https://github.com/owidate/task-manager)

- Built an end-to-end full-stack web application with a React frontend, Node.js/Express.js REST API backend, and a relational SQL database layer.
- Dockerised the application for reproducible local deployment, gaining practical experience across the complete software development and deployment lifecycle.
- Implemented JWT-based authentication, CRUD operations, and a responsive UI — covering backend, frontend, and database integration.

## System Resource Monitor

*C++ · Low-Level Systems Programming · Linux*

■ [github.com/owidate/sys-monitor](https://github.com/owidate/sys-monitor)

- Developing a Linux hardware monitoring tool in C++ that reads directly from /proc and /sys to track CPU, memory, and disk usage in real time.
- Applies low-level systems programming and Linux internals as part of a cybersecurity-focused skill-building track.

## Secure Password Generator

*Python · Cryptography · Security*

■ [github.com/owidate/password-gen](https://github.com/owidate/password-gen)

- Developed a cryptographically secure password generation tool producing high-entropy passwords; validated output strength using third-party security testing tools.

## Sony Store — Team E-Commerce Application

*Java · Agile · Scrum · Collaborative Development*

- Collaborated in a team of 4 using agile/Scrum workflows to design and deliver an e-commerce application, developing experience in sprint planning, code review, and collaborative version control.