

MARYAM ALI HASAN DARWISH

Cybersecurity and Full-Stack Programming Professional

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Portfolio: maryamali27.github.io/portfolio/

PROFESSIONAL SUMMARY

Cybersecurity Professional and Programming Full-Stack Development Professional with integrated expertise in building systems where protection and functionality are designed together. Applies threat-aware engineering to application architecture, coding, and deployment, ensuring security and user experience advance in parallel. Seeking to contribute to teams that value dual-discipline thinking, secure-by-design delivery, and resilient cloud-native solutions.

TECHNICAL SKILLS

- Languages:** Python, JavaScript, TypeScript, Go, Java, PHP, SQL, Rust
- Frontend and UI:** React, Next.js, Tailwind CSS, HTML5, CSS3
- Backend and APIs:** Node.js, Express.js, REST APIs, WebSockets, Socket Programming, JSON
- Databases:** MySQL, SQLite, Azure Database, PostgreSQL
- Cloud and DevOps:** AWS, Azure, Docker, Git, GitHub, Gitea, Linux, Windows
- Cybersecurity and Networking:** Wireshark, Nmap (Zenmap GUI), Metasploit, Cisco Packet Tracer, Oracle VM VirtualBox
- Testing and AI Tools:** VS Code, Pytest, Ollama, Aya AI, Reboot Cloud

SOFT SKILLS

Team Collaboration, Communication, Problem-Solving, Critical Thinking, Time Management, Self-Learning, Research, Analytical Thinking.

EDUCATION

Bachelor in Cybersecurity

University of Bahrain

Expected Jun 2026

Full Stack Development Program

Reboot Coding Institute

Expected Jun 2026

PROJECTS

OpticNet: Interactive Network Visualizer(Senior Project)

URL: opticnet.online

Tech: Python, Go, Docker, Nmap, Pytest, AES/Fernet, Ollama/Aya AI, MySQL

- Designed and deployed a containerized security microservices platform utilizing Docker to automate Nmap network scanning and Wireshark packet analysis, reducing manual discovery time.
- Engineered an end-to-end zero-knowledge cryptographic workflow using Argon2id and AES/Fernet alongside integrated local LLMs (Ollama/Aya AI) for automated threat intelligence.
- Achieved 100% code test coverage by writing and executing 120+ Pytest integration cases, ensuring data validation stability and seamless pipeline scaling.

News API Client-Server Application

Tech: Python, Sockets, REST API, JSON, TCP/IP, Multithreading

- Developed a high-concurrency TCP client-server infrastructure in Python using socket programming and multithreading to handle simultaneous user queries seamlessly.
- Integrated external REST APIs securely with optimized JSON parsing, implementing custom authentication and real-time data retrieval algorithms.

IT College Room Booking System

Tech: PHP, MySQL with PDO, JavaScript, Bulma CSS, Chart.js

- Architected and built a full-stack booking system handling role-based access control (RBAC) and real-time conflict-detection for college campus facilities.
- Designed secure relational database schemas using MySQL PDO to mitigate SQL injection threats, integrating a Chart.js dashboard for real-time occupancy analytics.

Social Network Platform

Tech: Go, Next.js, TypeScript, WebSocket, Docker, SQLite, React

- Engineered a high-performance messaging backend in Go, utilizing WebSockets to handle real-time bi-directional data flow for chat and global notification systems.
- Implemented secure user authentication sessions and connected a modular React/Next.js frontend with an optimized SQLite storage layer.

JavaScript Browser Game: Catch the Falling Things

Tech: JavaScript ES6+, HTML5, CSS3

- Created an interactive game with real-time physics, dynamic collision detection mechanics, and a modular ES6 code architecture layout.

MyFramework: Helper Framework

Tech: Vanilla JavaScript, Virtual DOM

- Developed a custom, lightweight Single Page Application (SPA) framework featuring a virtual DOM rendering tree, custom state management lifecycle, and hash-based routing systems.

EXPERIENCE and HACKATHONS

- Participant | NASA International Space Apps Challenge (2024 and 2025)
- Participant | Bahrain National CTF (2025)

CERTIFICATIONS

- AWS Certified Cloud Practitioner | Amazon Web Services, 2025
- Advanced Cybersecurity Risk Management | Board Infinity, 2025
- Metasploit for Beginners: Ethical Penetration Testing | Coursera, 2025
- Bahrain National CTF Certificate of Participation, 2025
- NASA International Space Apps Challenge Certificate of Participation, 2024 and 2025
- Cybersecurity Certificates | Kennesaw State University via Coursera, 2024
- IBM SkillsBuild Cybersecurity Pathway: Architecture, Encryption, Career Fundamentals, 2024
- HCIA openEuler V1.0 Course, 2024

LANGUAGES

Arabic: Fluent

English: Fluent