

MARYAM ALHAWI

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SUMMARY

Final-year Cybersecurity B.Sc. student at the University of Bahrain, maintaining a 3.98/4.00 GPA, with strong foundations in secure application development and full-stack development. Hands-on experience building scalable web systems, APIs, and real-time applications, with a strong background in problem-solving, system design, and cybersecurity fundamentals. Motivated to contribute to high-impact technical projects while continuously expanding technical and professional skills.

EDUCATION

Bachelor of Science in Cybersecurity

09/2022 – 08/2026

University of Bahrain

- GPA: 3.98 / 4.00
- Relevant Coursework: Secure Software Development, Data Structures & Algorithms, Network Security, Risk Management, IT Auditing, Penetration Testing, Ethical Hacking, and Ethics.

Full-Stack Development Program

03/2023 – 08/2026

Reboot Coding Institute

Intensive hands-on training in full-stack development, systems programming, real-time applications, and algorithms, with experience building cross-platform web platforms, real-time communication systems, custom servers, AI bots, and API dashboards, with exposure to operating systems, emphasizing performance, security, and clean architecture.

TECHNICAL SKILLS

Programming Languages

Java, Go, Python, Rust, PHP

Backend & APIs

RESTful APIs, Session-based Authentication, WebSockets

Databases

MySQL, SQLite3

Platforms & IDEs

IntelliJ IDEA, Visual Studio Code

Languages

Arabic, English

Frontend

React.js, Next.js, Tailwind CSS, HTML, CSS, JavaScript, AJAX

Cloud & DevOps

AWS, Docker, Linux

Version Control

Git, GitHub

Soft Skills

Communication, teamwork, problem solving, analytical thinking

CERTIFICATIONS

AWS Certified Cloud Practitioner — Amazon Web Services

Cybersecurity Fundamentals — IBM (Coursera)

Advanced Cybersecurity Risk Management — Board Infinity (Coursera)

Web Application Security Testing with OWASP ZAP — Coursera

Metasploit for Beginners: Ethical Penetration Testing — Coursera

PROJECT EXPERIENCE

Social Network Platform

Go, Next.js, React, Docker, SQLite

- Designed and implemented a scalable full-stack web application with cross-platform support
- Developed real-time chat system using WebSockets, secure session-based authentication, and user profiles
- Built databases with migrations, follower systems, and asynchronous data updates via AJAX

- Designed responsive UI/UX and deployed using Docker, focusing on security, performance, and maintainability

IT College Room Booking System

PHP, MySQL (PDO), Tailwind/Bootstrap, JavaScript

- Collaborated in an Agile team to build a multi-role room booking platform
- Implemented authentication, admin dashboards, conflict detection algorithms, and notifications
- Developed reporting dashboards and a commenting system, ensuring full responsiveness and cross-device compatibility
- Focused on usability, security, and maintainable code architecture

Library Management System

Java, Data Structures, OOP

- Developed a menu-driven library system using object-oriented principles
- Implemented core classes with proper encapsulation and LinkedList data structures
- Enforced business rules, including book limits, issuance tracking, and member management
- Focused on clean architecture, maintainability, and reliable data handling

ADDITIONAL PROJECTS

AI Game Bot

Developed an intelligent and strategic bot capable of analyzing the game's current state, and calculating optimal moves, achieving an approximate 80% win rate.

Ray Tracing Renderer

Implemented a realistic rendering engine using ray tracing techniques to display various 3D shapes with accurate lighting and reflections. Added interactive camera controls allowing zoom, rotation, and viewpoint changes for dynamic scene exploration.

Local Web Server

Built a high-performance local server primarily in Rust, with CGI support for Python. Designed efficient routing, request handling, and safe connection termination mechanisms. Achieved 99% availability with no memory leaks or hanging connections.

INTERNATIONAL EXPERIENCE

2026 Chinese Bridge Student Delegation

Shanghai University

01/2026

Shanghai, China

- Selected to represent Bahrain in a cultural & academic exchange program hosted by Shanghai University's College of International Education
- Completed coursework in Mandarin, Chinese calligraphy, paper cutting, and Chinese culture and history
- Achieved HSK Level 1 with a perfect score of 200/200.

ACTIVITIES & INTERESTS

- Currently completing university coursework in core cybersecurity topics, including network security, penetration testing, risk management, auditing, and ethics.
- Actively engaged in the cybersecurity community through events such as the Arab International Cybersecurity Conference, hackathons, and Capture the Flag (CTF) competitions.
- Passionate about secure software development, Artificial Intelligence, and fintech innovation, with a strong drive to contribute to impactful projects.
- Currently exploring specialization in Cybersecurity and DevOps through Reboot Coding Institute