Mohamed ZAIN (Resume)

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Languages: English: B2, French: B2, Arabic: Fluent

Profile

5th-year Computer Engineering student specializing in Software Engineering with 15 years of military experience in the Royal Air Forces and a Bachelor's in Mathematics. Skilled in software development, cybersecurity, and network administration with 2 years in a cybersecurity lab.

Education

State Engineer's Degree, Software Engineering — 2022–2025
Universiapolis University - Polytechnique, Agadir

Bachelor's Degree, Applied Mathematics — 2017–2021
Ibn Zohr University, Agadir

High School Diploma, Experimental Sciences — 2006–2007
Hassan 1st High School, Tiznit

Professional Experience

Network Infrastructure Security Intern, Union IT Service, Casablanca — 08/2024–10/2024
Secured networks using OSPF, VLANs, ADDS, Fortinet. Managed users via ADDS.
Tools: OSPF, VLANs, ADDS, DNS, DHCP, Fortinet

Remote Intern, Equipment Management Web App, Amazon, Virginia, USA — 08/2023–10/2023
Developed a web platform for user, inventory, storage management.
Tools: React TS, Node.js, MongoDB, Bootstrap

IT Lab, Royal Air Forces, Agadir — 01/2021–09/2024
Managed network security with OSPF, ADDS, DNS/DHCP administration.
Tools: Windows Server 2016/2019, ADDS, DHCP, OSPF, VTP

Projects

Final Year Project: AI Vulnerability Detection — Since 03/2025
Used Spring Boot, PostgreSQL, Jenkins, Docker, AWS, ChatGPT API, Ollama.

Airline Ticket Booking App — 01/2025–02/2025
Built with Spring Boot, Angular, MySQL, Docker; features REST API, authentication.

Portfolio Creation — Ongoing
Developed with Angular, Bootstrap, Tailwind CSS to showcase projects.

Management Web Application — 04/2023–05/2023
Implemented CRUD operations using Java, Struts, JSP, Servlets, GlassFish.

Technical Skills

Programming	C, C++, JavaScript, PHP, HTML5
Frameworks	Angular, Python, Laravel, Spring Boot
DevSecOps/DevOps	Git, GitHub, Jenkins, SonarQube, Docker
Databases	PostgreSQL, MongoDB
Tools	LaTeX, CSS, Bootstrap, Tailwind CSS, Maple

Certificates

- Google Cybersecurity Certificate, Coursera, 10/2024
- Ethical Hacking Essentials (EHE), EC-Council, 05/2024
- SQL Injection Attacks, EC-Council, 03/2024
- Wireshark for Network Security Analysis, Coursera, 03/2024
- System Administration, Google, Coursera, 03/2024
- Security Operations Center (SOC), Cisco, 03/2024
- Linux Commands and Shell Scripts, IBM, 02/2024
- CCNA 1 and 2, Cisco, 12/2023

Additional Training

Defensive Cybersecurity Operations, AFRICAN LION, USA/Morocco — 04/2024–05/2024
Tools: Security Onion, Caldera, Wireshark, Metasploit6, PowerShell

Cybersecurity Training, AFRICAN LION, USA/Morocco — 04/2023
Tools: Security Onion, Wireshark, PowerShell, C2, C3

Hobbies

Royal Armed Forces Parachutist Diploma, Maâmora, Salé, 05/2010
Football, Athletics, Swimming