

Mohamed Waleed

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Military Service: Exempted

SUMMARY

Results-driven Computer Systems Engineer with expertise in embedded systems, DevOps, and full-stack development. Shifted from Mechatronics Engineering, extending studies by a year to gain real-world experience and strong academic performance. Skilled in delivering end-to-end systems and collaborating across teams.

EXPERIENCE

DevOps/Software Engineer	Valeo	<i>Contract</i>	09/2025 - Recent
Joined the R&D Team, working with CI/CD pipelines, Flask, React, Docker, developing backup and replication scripts, code refactoring, and performed reverse engineering for an undocumented project, while collaborating in Agile teams, gaining hands-on experience with industry-level tools and contributing to demo events. Worked with V-core and Valeo services teams.			
DevOps Engineer	Ministry of Communications and Information Technology DEPI	<i>Internship</i>	06/2024 - 01/2025
Improved Linux skills, implemented CI/CD processes to automate workflows, and developed mini-projects to showcase CI/CD principles, contributed to a graduation project as part of a team and earned a certification .			

EDUCATION

Bachelor of Engineering <i>(in Computer Systems Engineering)</i>	09/2019 - 07/2025
University of Greenwich	GPA: 3.45
MSA university	GPA: 3.02

PROJECTS

- **IoT based Earthquake Station.** *(University of Greenwich & MSA university graduation project)*
Built IoT station using STM32 BLUEPILL, engineered real-time Express/MySQL backend with Socket.io, developed React/Tailwind, frontend with Docker containerization, created Python scripts to (filters/math ops/ ML analysis) and earthquake simulator.
Key technologies:[[Docker](#),[Sockets](#), [REST](#), [SQL](#), [Express](#), [CORS](#), [React Tailwind](#), [I2C](#), [UART](#), [SPI](#), [UDP](#), [TFT-LCD](#), [WDT](#), [Embedded C](#), [Math](#), [Python](#), [PCB Design](#), [ML](#), [Autocad](#)]
- **Deaf Gloves.** *(IMT graduation project)*
Developed gloves that translates hand signs in only 2 seconds of delay to text and audio using AVR µC and flex sensors.
Key technologies: [[Python](#), [UART](#), [I2C](#), [ADC](#), [LCD](#), [Atmega32](#), [Embedded C](#), [Flex Sensors](#), [Voltage Divider Circuits](#), [pyttsx3](#)]
- **Spring Boot Petclinic Application.** *(DEPI graduation project)*
Contributed in application containerization, MySQL schema design, Python test automation, Jenkins CI/CD pipelines, shell scripting,Kubernetes deployment using Kompose and maintained team communication through consistent documentation.
Key technologies: [[Docker](#), [Kompose](#), [SQL](#), [Python](#), [Shell scripting](#), [Jenkins Pipelines](#), [k8s](#), [SCM-Poll](#), [Tomcat](#), [Maven](#)]
- **Full Stack E-commerce.** *(AMIT graduation project)*
Built E-commerce webapp using (Express, Mongoose, stripe, Docker for microservices architecture) for backend, (NextJS, i18next, React, Redux, Tailwind) for frontend monitored the performance using (Prometheus, Grafana and cAdvisor).
Key technologies: [[Docker](#), [Express](#), [JWT](#), [Stripe](#), [Mongoose](#), [Prometheus](#), [Grafana](#), [cAdvisor](#), [React](#), [Tailwind](#), [Redux](#), [NextJS](#), [Microservices architecture](#), [i18next](#)]
- **MFKOD.**
The project aims to search for missing people using face recognition technology.
Key technologies: [[Docker](#), [Python](#), [FastAPI](#), [Uvicorn](#), [face_recognition](#), [FAISS](#), [MySQL](#), [PHPMyAdmin](#), [React](#), [Next.js](#), [Tailwind CSS](#)]

ACHIEVEMENTS

- Completed 365 days in LeetCode.
- Ranked 1st in the **Problem Solving Contest**, MSA university, CSE Department 12/2024.
- Cut costs for **IoT earthquake station** project by 97% by following essentialism principles.
- Identified and reported critical IDOR flaws in an e-learning platform, earning an **appreciation letter**.

SKILLS

- **Frontend:** React | Redux Toolkit (RTK)| Next JS | Tailwind | i18next
- **Backend:** Socket.io | Express | NestJS | little interaction with (GraphQL, FireBase, Stripe) | FastAPI | Flask | Django
- **Embedded Syst. & IoT:** AVR | FreeRTOS| ARM | ESP | PIC
- **Databases:** MongoDB | Mongoose | MySQL | Sequelize | little interaction with (Redis)
- **Networks & Server Management:** CCNA | MCSA | RHCSA | Debian
- **Programming:** C | CSS | JavaScript | TypeScript | HTML | C++ | Python | low interaction with (QT (C++))
- **DevOps Tools:** Jenkins | Docker | SSH | FTP | VSFTPd | Git | Prometheus | cAdvisor | Grafana | Ansible | Kubernetes | K3s
- **Soft Skills:** Collaboration | Organization | Problem solving | Adaptability | Leadership | Critical thinking | Time management
- **Additional Tools:** Photoshop | Microsoft Office| LibreOffice | GIMP | LaTeX

COURSES

• CCNA 200-301 & MCSA Diploma	IT – Gate Academy	240 hours
• Full stack web development Diploma	AMIT	215 hours
• C Embedded systems AVR Diploma	IMT school	160 hours
• CCNA 200-301	Udemy	40 hours
• PMP preparation course	Engineering Tracks	35 hours
• Machine learning fundamentals	Digital HUB	30 hours
• Business English track	MCIT	24 hours