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**   *Contract*   **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**   *Internship*   **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 *(in Computer Systems Engineering)*   **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
- **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
- **Additonal Tools:** Photoshop | Microsoft Office| LibreOffice | GIMP | LaTeX

COURSES

Course	Provider	Hours
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