BEL OUARRAQ MOHAMMED

Final-year Computer Engineering Student

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PROFILE

DevOps & Cloud enthusiast with a strong foundation in technology and programming, developed through hands-on training and projects. Skilled in problem-solving, teamwork, and project management, and always eager to explore new tools and practices in the DevOps & Cloud ecosystem. Open to internship opportunities to apply and expand my skills in real-world IT environments.

EDUCATION

National School of Applied Sciences
Engineering degree in Computer science
2020 – In progress

UM6P – 1337 MED
Digital Technology Architect
2022 – 2025

EXPERIENCES

DevOps & IAM Intern - E2IP TECHNOLOGIES

July 2025 - September 2025

- Assisted in deploying and maintaining cloud-native IAM solutions.
- Automated CI/CD pipelines and monitored system performance with Kubernetes, Docker, and Prometheus.

President - ADE (Student Association)

January 2024 - March 2025

- Led the student association representing 1,000+ students in academic and extracurricular initiatives.
- Organized events, managed budgets, and fostered partnerships with universities and sponsors.

Software Research Intern - BMCE GROUP

June 2023 - August 2023

- Gained hands-on experience in document digitization and data management

CERTIFICATIONS

- **Kubernetes and Cloud Native Associate (KCNA)** – *The Linux Foundation*
  Issued : September 2025
- **Docker Foundations Professional Certificate** - *Docker, Inc*
  Issued : june 2025

SKILLS

- C / C++
- Python
- Django
- MySQL
- MongoDB
- Terraform
- Docker
- Kubernetes
- CI / CD
- Grafana
- Linux / Unix
- Git / Github
- ArgoCD
- Vagrant
- Prometheus

LANGUAGES

- **Arabic** – *Native*
- **French** – *Professional proficiency*
- **English** – *Professional proficiency*

ACADEMIC PROJECTS

SecureAuth – Final Year Project

Designed and implemented an Identity and Access Management (IAM) platform supporting SSO, MFA (TOTP, WebAuthn/FIDO), and identity lifecycle management, deployed with Kubernetes (Minikube, K3s), Docker, and Helm for scalability and resilience, while integrating Prometheus and Grafana for observability and automating deployments through ArgoCD in CI/CD pipelines.
Technologies Used: Kubernetes, Docker, Helm, k3s, Terraform, Prometheus, Grafana, ArgoCD, CI/CD, Django, REST API

IoT – Lightweight Kubernetes Orchestration

Demonstrated container orchestration using K3s with Vagrant and K3D with ArgoCD, creating and managing lightweight Kubernetes clusters across various environments, from multi-node setups to GitOps-driven CI/CD pipelines.
Technologies Used: K8s, k3s, k3d, Vagrant, Docker, CI/CD, ArgoCd, Scripting

Transendence – Multiplayer Gaming Platform

Developed a web application for a multiplayer gaming platform featuring user management, blockchain score storage, and AI opponents. Implemented cybersecurity measures, including two-factor authentication and GDPR compliance, and designed the backend as microservices for scalability. Utilized advanced graphics techniques to enhance user experience.
Technologies Used: HTML, CSS, Bootstrap, JavaScript, ThreeJS, Django, Docker, Docker compose, Microservices, CI/CD Pipelines, Rest API, PostgreSQL.

Inception – Containerized Multi-Service System

Designed and implemented a secure, multi-service system using Docker containers for Nginx, WordPress, and MariaDB, orchestrated with Docker Compose. Ensured service isolation, seamless communication, security, and resource optimization, showcasing advanced skills in containerization and system deployment.
Technologies Used: Docker, Docker Compose, Nginx, WordPress, MariaDB, Linux.

Born2beRoot – Secure System Setup & Monitoring

Configured a virtual machine to install a secure Debian-based operating system, following strict security and partitioning protocols. Managed a WordPress installation and developed a Bash monitoring script to ensure system performance and stability.
Technologies Used: Debian, Security, Encryption, Monitoring, Bash

NestTools – Community Tool-Rental Platform

Developed a full-stack web application that connects DIY enthusiasts with local tool owners, enabling users to rent tools at a fraction of the purchase cost. Promotes cost-effective and sustainable access to equipment through a community-driven platform.
Technologies Used: React, Next.js, Tailwind CSS, Typescript, Laravel, Docker, Docker compose