

# Mohamed Hmaidi

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## IT Engineer specialized in IT Architecture, DevOps, and Cloud Computing

### Professional Experience

#### Next Step IT – Cloud & DevOps Engineer Intern: DBaaS Platform

02/2025 – 07/2025

- Designed and implemented scalable database infrastructure. Automated deployments with **Kubernetes Operators** and **Helm**. Built secure, responsive web interfaces with **Angular** and **Spring Boot**. Integrated monitoring with **Prometheus** and **Grafana**. Tech Stack: **Kubernetes, NFS, Ansible, Kubespray, MetalLB, Helm, Prometheus, Grafana, Spring Boot, Angular, MySQL, Flask, OpenCV**.

#### Next Step IT – Cloud Intern: Reporting System for Cloud Services

07/2024 – 09/2024

- Designed and deployed an architecture integrating **Nakivo, Zimbra, and vCenter** for storage, messaging, and IaaS. Developed an automated backend with **PowerShell** scripts and an interactive dashboard, including PDF report generation. Ensured production deployment and continuous operation. Tech Stack: **vCenter, VMware ESXi, Nakivo Solution, Zimbra, Grafana, PowerShell, VMware CLI, Linux, RESTful API, SMTP, Spring Boot, Node.js, PostgreSQL**.

#### Société Générale d'Automatisme – DevOps Intern

06/2023 – 08/2023

- Implemented an automated **CI/CD pipeline** with **Jenkins** for builds, tests, and deployments. Containerized and deployed a **Spring Boot** and **Angular** application on **Kubernetes**, ensuring quality, security, and performance. Tech Stack: **Jenkins, Nexus, SonarQube, Mockito, Spring Boot, Angular, Docker, Trivy, k6, Kubernetes, MySQL**.

#### BIAT – BI Intern - Final Year Project

02/2022 – 06/2022

- Designed a **dashboard** for monitoring BIAT's Swift processes, integrating a **data warehouse** for data processing and visualization. Data processing involved cleaning, integration, and **ETL** with **Talend**, followed by visualization in **Power BI**. Tech Stack: **Java, Talend, Power BI, Excel, PostgreSQL**.

### Skills

**Cloud and Virtualization:** Openstack, Azure (AZ-900), AWS, Prometheus, Grafana, VMware vCentre, ESXi, Nakivo Solution, Zimbra, KVM, TigerVNC.

**DevOps and Automation:** Ansible, Terraform, Jenkins, Git, GitHub, Kubespray, MetalLB, Helm.

**Containerization and Orchestration:** Docker, Docker Compose, Docker Swarm, Kubernetes.

**Business Intelligence:** Talend, Power BI, Excel, SQL, NoSQL.

**Web:** Angular, Spring Boot, Node.js, .Net, Tailwind, Bootstrap, Symfony, Flask.

**Data Science:** Python: Pandas, SciPy, NumPy, Matplotlib, Math, Sklearn, OpenCV.

**Desktop:** C, Java, JavaFX.

**Operating Systems:** Windows (PowerShell), Linux (Bash).

**Software and IDEs:** Anaconda, NetBeans, IntelliJ, VS Code, StarUML, Scene Builder, Git.

### Projects

#### CSERS - ESPRIT Campus Security and Emergency System on MS Azure

03/2024 – 05/2024

- Developed a **web platform** with **Spring Boot** and **Angular** on **Azure AKS** for campus security management, reducing deployment times by 60.

#### Private Cloud Infrastructure with OpenStack (IaaS)

11/2023 – 03/2024

- Designed a **multi-node cloud infrastructure** with **OpenStack**. Utilized **Keystone, Nova, Glance, Magnum, Heat, and Swift**. Automated processes via **Ansible** and configured a **Kubernetes cluster** with **Prometheus** and **Grafana** for monitoring. Tech Stack: **OpenStack, Ansible, Kubernetes, Prometheus, Grafana**.

#### GitOps CI/CD Pipeline

09/2023 – 10/2023

- Deployed an automated application with **GitOps** using **GitLab CI/CD, Terraform** for Azure infrastructure, and **ArgoCD** for **Kubernetes** synchronization. Used **SonarQube, Trivy, Docker, and Helm** for code analysis, security scans, builds, and chart updates. Tech Stack: **GitLab CI/CD, Terraform, ArgoCD, Kubernetes, SonarQube, Trivy, Docker, Helm**.

### Academic Career

#### ESPRIT Engineering School

09/2022 - Present

Accredited by CTI and the Conference of Grandes Écoles, active member of the CDIO initiative

- Engineering degree in Cloud Computing and IT Architecture.

#### Higher Institute of Computer Science of Mahdia ISIMA

2019 - 2022

National Bachelor's Degree in Computer Science Applied to Management.

### Languages

**English** - Fluent

**French** - Fluent