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 a DBaaS platform for automated provisioning of managed databases, with a scalable infrastructure using **Kubernetes Operators** and **Helm**. Developed secure web interfaces with **Angular** and **Spring Boot**, integrating **NFS** for storage. Implemented monitoring with **Prometheus** and **Grafana** to optimize performance. Tech: **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 %. Containerization via **Docker**, image management with **DockerHub** and **ACR**, and orchestration with **Kubernetes**. Optimized traffic with **Nginx**. Tech Stack: **Spring Boot, Angular, Azure AKS, Docker, Kubernetes, Nginx**.

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*