



# Mortadha Echawech

Student in DevOps & Cloud Computing Engineering  
Job Title: DevOps Engineer

echawech.mortadha@esprit.tn | Erfurt, Germany | +49 155 10622120 | LinkedIn | Portfolio

## Professional Summary

DevOps Engineer passionate with hands-on experience in Cloud Computing, CI/CD pipeline automation, containerization, and cloud infrastructure management. Expert in using tools such as Azure DevOps, Jenkins, Docker, K8s, Prometheus, and Grafana, I have demonstrated my ability to optimize processes, reduce deployment times, and enhance security across environments. Additionally, my skills in embedded systems and IoT allow me to integrate innovative hardware and software solutions, thereby improving overall system performance.

## Professional Experience

### DevOps Internship, Ernst & Esprit

June 2024 – August 2024, Tunis, Tunisia

- Designed and deployed a secure DevOps pipeline, reducing deployment times by 25% and security incidents by 40%.
- Tools:** Azure DevOps, Snyk, OWASP ZAP, SonarCloud, Trivy, Azure Firewall, Azure Monitor.

### Web Development Internship, smart Ways

July 2023 – August 2023, Tunis, Tunisia

- Developed a web application using Symfony integrating Firebase, improving data processing efficiency by 20%.
- Tools:** Symfony, MySQL, Firebase, Azure Kubernetes Service.

## Projects

### DevOps Project

October 2024 – November 2024

- Streamlined the CI/CD pipeline using Jenkins, SonarQube, and Nexus Repository, reducing deployment times by 30%.
  - Deployed Dockerized applications (Spring Boot and Angular) and ensured continuous monitoring with Prometheus and Grafana.
- Tools:** Jenkins, Docker, SonarQube, Prometheus, Grafana.

### Private Cloud Infrastructure

November 2023 – July 2024

- Designed a scalable cloud infrastructure with OpenStack, managing up to 100 virtual machines.
  - Automated administrative tasks using Ansible, reducing workload by 20%.
- Tools:** OpenStack, Docker, K8s, Ansible, Prometheus.

### NetShield Pro

January 2023 – February 2023

- Deployed pfSense and OpenVPN to secure communications, with Snort improving network security by 35%.
- Tools:** pfSense, OpenVPN, Snort.

### Khadamni Connect

March 2023 – May 2023

- Developed Khadamni Connect, a versatile multi-platform job and service hub that empowers professionals to create detailed profiles, apply for opportunities, and connect with clients for service engagement and feedback.
- Tools:** Symfony, JavaFX, Android Studio, MySQL.

### Driver Monitoring System

January 2022 – May 2022

- Designed an IoT system to monitor driver fatigue and implemented a machine learning model for drowsiness detection.
- Tools:** Raspberry Pi, Python, TensorFlow, OpenCV, Android Studio.

### Smart Haus IoT Project

2021

- Designed and developed an IoT system for intelligent home management, integrating temperature, motion, and security sensors to optimize energy efficiency and comfort.
- Tools:** Raspberry Pi, Arduino, MQTT, Node-RED, Python.

## Education

### Exchange Student, Schmalkalden University of Applied Sciences

Ongoing

Specialization: Cloud Computing

### Final Year of Engineering Degree, Esprit University of Tunisia

2023 – 2025

Specialization: Cloud Computing, Tunis, Tunisia

### Bachelor's Degree

2022

Higher Institute of Technological Studies of Sfax, Tunisia

Specialization: Embedded Systems and Mobile Development

## Skills

- CI/CD Tools:** Azure DevOps, Jenkins, SonarQube, Nexus Repository, GitLab, Argo CD
- Cloud Technologies:** OpenStack, Azure Kubernetes Service, Docker, K8s, AWS, Google Cloud, Ceph, Proxmox, Helm
- Automation:** Ansible, Terraform, Vagrant
- Programming Languages:** Python, Java, Spring Boot, Angular, JavaScript, TypeScript, android
- Embedded Systems & IoT:** Raspberry Pi, Arduino, STM32, TensorFlow Lite, OpenCV
- Application Development:** Symfony, JavaFX, Android Studio, React Native, Flutter, Node.js, Express.js
- Mobile Web Development:** React, Vue.js, Ionic, Cordova
- Networking & Security:** pfSense, Snort, OpenVPN, WireGuard
- Monitoring:** Prometheus, Grafana

## Languages

**French:** B2   **English:** B2   **Arabic:** Native   **German:** Beginner