

# Mahmoud Mzoughi

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**Fifth year student in Engineering School, specializing in IT Architecture, DevOps and Cloud Computing.**

## Professional Experience

### Focus Corporation – Cloud Engineering Intern

07/2024 – 09/2024

- Designed and implemented a **benchmarking strategy** to optimize CPU, memory, storage I/O, and network throughput measurements, resulting in a **25% increase in resource efficiency**, while gaining hands-on experience with **Sangfor HCI, Sangfor SCP, VMware vSphere, Cloud Director, Ansible, and Terraform**.

### SM DEVIS RÉNOV 2.0 – Symfony / DevOps Intern

06/2023 – 08/2023

- Developed a **Symfony web platform** to connect users and service providers, enhancing engagement, while automating testing and deployments with **GitLab CI/CD**, leading to a **40% increase in deployment efficiency** and a **70% reduction in production time**, while collaborating with the DevOps team to optimize service reliability.

### SM DEVIS - End-Of-Studies Project Intern

01/2021 – 06/2021

- Developed a **full-stack web application** using the **SERN stack** (SQL, Express, React, Node.js) for managing quotes and inventory, optimizing administrative processes to reduce processing times by 15%, and designed a **user-friendly interface** to improve usability and satisfaction.

## Skills

### Cloud & DevOps Tools:

**PROFICIENT:** Docker, Kubernetes, GitLab CI/CD, Terraform, Ansible, OpenStack, KVM, VirtualBox

**EXPERIENCED:** Azure(AZ-900, AI-900 Certified), AWS, VMware (vSphere, Cloud Director, vCloud Suite), Jenkins, GitHub Actions, Sangfor (HCI & SCP)

**FAMILIAR:** Nexus, SonarQube, Vagrant

### System Administration:

**PROFICIENT:** Linux (CentOS, Ubuntu), Windows

### Development & Frameworks:

**PROFICIENT:** Java, Python, JavaScript, TypeScript

**EXPERIENCED:** Angular, Spring Boot, Symfony, .NET

**FAMILIAR:** Log4j, JUnit

### Databases & Big Data:

**PROFICIENT:** MySQL, PostgreSQL

**EXPERIENCED:** MongoDB, MariaDB

**FAMILIAR:** Hadoop

### Monitoring & Supervision:

**PROFICIENT:** Prometheus, Grafana

### Scripting:

**PROFICIENT:** Python, Shell (Bash)

## Projects

### DevOps Project - Automation and Monitoring of a Spring Application

09/2024 – Present

- Automated a **Spring Boot application** using **Jenkins** for CI, **SonarQube** for code analysis, managed with **Nexus**, orchestrated with **Docker Compose**, and monitored using **Grafana** with **Log4j** and **JUnit** to ensure stability.

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

03/2024 – 05/2024

- Developed a **web platform** using **Spring Boot** and **Angular** on **Azure AKS**, centralizing campus security management and optimizing campus emergency responses, with containerization using **Docker** and a 60% reduction in deployment times.

### Private Cloud Infrastructure with OpenStack (IaaS)

11/2023 – 03/2024

- Designed a **multi-node cloud infrastructure** with **OpenStack** ensuring 99.5% availability, automating processes with **Ansible**, **Heat**, and **Magnum**, while managing **containerization** with **Docker** and **Kubernetes**.

## Academic Career

### École d'Ingénieurs ESPRIT

09/2022 - Present

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

- Engineering degree in Cloud Computing and IT Architecture.

### École Supérieure de l'Économie Numérique ESEN

2018 - 2021

Applied License in Applied Computer Science for Management.

## Languages

**English** - Proficient

**French** - Proficient