

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