Ahmed Marzougui

DevOps Engineer

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Profile

Final-year engineering student in IT Infrastructure & Cloud Computing, seeking a 6-month full-time graduation internship in Cloud/DevOps starting December 2025. Proficient in Kubernetes, CI/CD, Terraform, and AWS. Motivated, adaptable, and eager to contribute to cloud-native environments.

Education

Private Higher School of Engineering and Technologies (ESPRIT), Tunisia — 2022 – Present
Engineering Degree in **IT Infrastructure and Cloud Technology**

Higher Institute of Applied Sciences and Technology of Mahdia, Tunisia — 2019 – 2022
Preparatory Cycle in **Mathematics and Physics**

Work History

DevSecOps Intern — Jun 2025 – Sep 2025
ST2I, Tunisia

- Deployed Spring Boot microservices on OpenShift using Helm and RBAC, reducing deployment time by 87% across 3 environments and improving SonarQube security score by 35%.
- Implemented GitOps with Argo CD and built a secure CI/CD pipeline integrating GitLab, Trivy, SonarQube, Prometheus, and Grafana, achieving 99.5% uptime and 95% vulnerability detection pre-production.

DevOps Intern — Jun 2024 – Jul 2024
SOCOOPEC, Tunisia

- Developed a full-stack web application for internal stock management using Angular and Spring Boot (JWT).
- Automated front-end delivery with GitHub Actions and deployed it to AWS EC2, reducing manual effort by 80%.

Projects

Private Cloud with OpenStack & Kubernetes

- Built a private cloud using **OpenStack** (Nova, Neutron, Glance, Cinder) and deployed a **Kubernetes cluster** for container orchestration.

Terraform VPC Infrastructure — Terraform, AWS VPC, IaC

- Created reusable Terraform modules to automate VPC provisioning, cutting deployment time by **70%** and improving consistency.

Automated KVM Virtual Lab — KVM/QEMU, libvirt, Ansible, Cloud-init

- Designed an automated virtualization lab with Ansible, libvirt, and Cloud-init to rapidly provision preconfigured VMs (network + storage), reducing setup time from hours to minutes for DevOps and testing environments.

Collaborative File Sharing Platform — React, AWS Cognito, Lambda, API Gateway, EFS, KMS, CloudWatch

- Designed and implemented a secure, serverless file-sharing platform with a **React** frontend, **AWS Cognito** for user authentication, **API Gateway** + **Lambda** for backend logic, and **Amazon EFS** as a scalable shared storage solution.
- Enhanced security and monitoring by integrating **AWS KMS** for data encryption, **AWS WAF** for threat protection, and comprehensive observability with **CloudWatch**, **X-Ray**, and centralized logging via **OpenSearch**.

Skills

Programming: Python, Java, JavaScript, PHP, C/C++, Shell Script, Rust, Go
Frameworks/Tools: Spring Boot, Angular, Symfony, .NET, Docker, Kubernetes, Jenkins, MySQL, Nginx
Virtualization/Systems: QEMU/KVM, OCI/Docker Images, Microservices Architecture
Cloud/DevOps: AWS, Terraform, OpenStack, Ansible, Grafana, GitLab, OpenShift, Argo CD, Helm, ELK Stack
Networking: AWS VPC, BGP (GNS3), Juniper vSRX, Fortinet FortiGate, Firewall, NAT

Languages

French (B2), **English** (B2), **German** (A2), **Arabic** (C2)