Ahmed Marzougui

DevOps Engineer

Phone: +216 58 911 742 — E-mail Address: ahmed.marzougui@esprit.tn — Tunis, Tunisia

Portfolio: marzouguiahmed9.github.io/portfolio

LinkedIn: linkedin.com/in/ahmed-marzougui-cloud — GitHub: github.com/MarzouguiAhmed9

Profile Summary

Final-year Engineering student in IT Infrastructure and Cloud Computing, seeking a 6-month full-time graduation internship in Cloud/DevOps starting December 2025. Skilled in Kubernetes, CI/CD, Terraform, AWS, and cloud security practices, with strong motivation to learn, adapt, and contribute effectively to secure cloud-native environments

Experience

ST2I – DevSecOps Intern   Tunisia, Jun 2025 – Sep 2025

- Orchestrated GitLab CI/CD pipelines to deploy 8 Spring Boot microservices on OpenShift with Helm and Argo CD, cutting deployment time by 87% across 3 environments: **staging, production, and test**.
- Secured the software supply chain by generating SBOMs with Syft, detecting image vulnerabilities with Grype, signing containers with Cosign, and enforcing RBAC, Trivy, and SonarQube — reducing vulnerabilities by 95% and raising code quality by 35%.
- Enhanced monitoring with Prometheus and Grafana, maintaining 99.5% uptime on critical services.

SOCOOPEC – DevOps Intern   Tunisia, Jun 2024 – Jul 2024

- Developed a full-stack web application for internal stock management using Angular and Spring Boot (JWT).
- Streamlined front-end delivery with GitHub Actions and deployed it to AWS EC2, reducing manual deployment effort by 80% and achieving 2-minute build times.

Education

Private Higher School of Engineering and Technologies (ESPRIT), Tunisia   2022 – Present

Master of Science in **IT Infrastructure and Cloud Technology**

Higher Institute of Applied Sciences and Technology of Mahdia (ISSATM), Tunisia   2019 – 2022

Preparatory Studies for Engineering **Mathematics and Physics**

Projects

AWS 3-Tier Architecture — AWS VPC, EC2, ALB, ASG, Aurora MySQL, IAM, CloudWatch

- Implemented a secure, auto-scaling 3-tier AWS environment using ALB, ASG, and Multi-AZ Aurora MySQL to achieve high availability and seamless scalability.

Terraform VPC & Security Infrastructure — Terraform, AWS VPC, IAM, RDS, KMS, WAF, IaC

- Built reusable Terraform modules to automate AWS VPCs (subnets, SGs, route tables) and secure infrastructure (IAM roles, RDS encryption with KMS, WAF), cutting deployment time by **70%** and ensuring consistent, secure infrastructure.

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

- Delivered a secure, serverless file-sharing platform for **20–30 users**, leveraging AWS (API Gateway, Lambda, EFS, KMS, WAF) to enable encrypted storage and seamless access without managing infrastructure.

Technical 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, Linux System Administration

Cloud/DevOps: AWS, Terraform, OpenStack, Ansible, Grafana, GitLab, OpenShift, Argo CD, Helm, ELK Stack

Languages: French (B2), English (B2), German (A2), Arabic (C2)