Ahmed Marzougui

DevOps Engineer

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Profile Summary

Final-year Engineering student in IT Infrastructure and Cloud Computing, skilled in automating CI/CD pipelines, deploying microservices on Kubernetes, and managing cloud infrastructure using Terraform. Experienced in building secure, scalable, and reliable systems that streamline project lifecycles, optimize workflows, and enhance operational efficiency.

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.

Projects

End-to-End MLOps Pipeline — Python, DVC, dvclive, GitHub Actions, AWS S3

- Built an automated ML pipeline with DVC and GitHub Actions for data ingestion, preprocessing, model training/evaluation, and artifact storage on AWS S3, enabling **reproducible experiments** across multiple datasets and model versions.

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.

Service Health Checker API — Golang, HTTP, JSON, Monitoring, Metrics

- Developed a lightweight monitoring service in Go to periodically check the health of internal services and websites, exposing JSON and Prometheus metrics endpoints for integration with Grafana dashboards and alerting.

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

- Delivered a secure, serverless file-sharing platform leveraging AWS services (API Gateway, Lambda, EFS, KMS, WAF) to enable encrypted storage, access control, and monitoring without managing servers.

Education

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

Higher Institute of Applied Sciences and Technology of Mahdia (ISSATM), Tunisia — Sep. 2019 – 2022
Preparatory Studies for Engineering : **Mathematics and Physics**

Technical Skills

Programming: Python, Java, JavaScript, PHP, C/C++, Shell Script, Go, PowerShell

Frameworks/Tools: Spring Boot, Angular, Kubeflow, Docker, Kubernetes, Jenkins, Maven, Gradle, MySQL, Nginx, DVC

Virtualization/Systems: QEMU/KVM , Microservices Architecture, Linux System Administration, Proxmox

Cloud/DevOps: AWS, AWS CDK, GCP , Terraform, Ansible, Grafana, GitLab, OpenShift, Argo CD, Helm, ELK , SageMaker

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