Tamim Hmizi

Infrastructure Consultant | Cloud & DevOps | SaaS & Full-Stack

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github.com/tamim-hmizi | Portfolio

Professional Profile

Cloud & DevOps Engineer and Infrastructure Consultant with experience in SaaS and full-stack application delivery. Capable of managing the complete lifecycle of modern software systems, from infrastructure design and automation to CI/CD, deployment, monitoring, and production operations. Strong background in hybrid and cloud-native environments, DevOps pipelines, observability, security, and enterprise IT systems supporting scalable applications.

Core Technical Skills

Cloud & Platforms: Azure, AWS, GCP, OpenStack, DigitalOcean, Hybrid Cloud, IaaS, PaaS
Containers & Orchestration: Docker, Docker Compose, Kubernetes, Helm
DevOps & Automation: Jenkins, GitHub Actions, GitLab CI, Terraform, Ansible, CI/CD Pipelines, Infrastructure as Code (IaC), Nexus
Monitoring & Observability: Grafana, Prometheus, ELK Stack, CloudWatch, Alerting, Metrics, Dashboards
Security & Quality: Fortinet Firewalls, VPN, Network Segmentation, IAM, SonarQube, Trivy, OWASP
Backup & DR: Commvault (backup jobs, restore testing, failure analysis, reporting)
Systems & Identity: Linux, Windows Server, Active Directory, Microsoft 365
Programming Languages: Python, Bash, Java, JavaScript, TypeScript, C, C++, C#, PHP, Assembly, SQL
Backend Frameworks: FastAPI, Django, Flask, Express.js, Spring Boot, Node.js, REST APIs
Frontend Frameworks: Angular, React, Next.js, Vue.js, HTML, CSS
Databases: MongoDB, MySQL, PostgreSQL, DynamoDB, Redis
Version Control: Git, GitHub, GitLab, Bitbucket, Gitea

Professional Experience

Infrastructure Consultant — RFC   Oct 2025 – Present
Ariana, Tunisia

- Operate and support **production hybrid cloud infrastructure** based on **Azure Stack Hub integrated with public Azure** to deliver SaaS and enterprise services.

- Administer and troubleshoot enterprise **network and security infrastructure** using **Fortinet firewalls** and **Cisco networking equipment**.

- Implement endpoint and server protection using **Trend Micro antivirus** across infrastructure environments.

- Operate and maintain **Commvault backup infrastructure**, including backup execution, restore validation, failure analysis, and reporting.

- Provide infrastructure support through incident handling, troubleshooting, and service request resolution.

- Deliver technical workshops and client training sessions focused on infrastructure usage, security, and backup strategy.

- Manage **Active Directory** services and participate in **Microsoft 365** tenant administration.

DevOps Platform Engineer — Final Year Project (PFE), RFC   Feb 2025 – Aug 2025

- Designed and implemented a **DevOps-as-a-Service SaaS platform** to automate application analysis, deployment, and monitoring.

- Built a **monolithic core application** using **React**, **Express.js**, **FastAPI**, and **MongoDB**, with clear separation between frontend, API gateway, and backend services.

- Integrated an **AI-driven analysis engine (LLM-based)** to inspect Git repositories, application structure, dependencies, and runtime requirements.

- Implemented **multi-architecture deployment logic**, enabling automated decision-making between:

- **Virtual Machine deployments** for one-tier and monolithic applications.
- **Kubernetes (AKS) deployments** for microservices-based architectures.

- Developed two **e-commerce applications using the MERN stack** as real deployment use cases:
  - A **one-tier monolithic e-commerce application** deployed on a **Virtual Machine**, selected and recommended by the AI engine based on repository structure and runtime analysis.
  - A **microservices-based e-commerce backend** deployed on **Kubernetes (AKS)**, recommended by the AI engine due to service decomposition and scalability requirements.

- Automated **VM-based deployments** using **Terraform** for infrastructure provisioning, **Ansible** for configuration management, and **Docker / Docker Compose** for application delivery.

- Implemented **AKS microservices deployments** using **AKS Engine**, **kubectl**, and Kubernetes **YAML manifests** with per-microservice deployment templates.

- Designed and implemented **CI/CD pipelines using Jenkins**, covering build, test, quality, security, artifact management, and deployment stages.

- Integrated **SonarQube** for code quality analysis and **Nexus** for artifact management.

- Implemented full **observability and monitoring** using **Prometheus** and **Grafana**.

- Reduced infrastructure provisioning and deployment time by approximately **70%** through automation.

Cloud & Full Stack Engineer — Internship, RFC   Jul 2024 – Aug 2024

- Developed a **cloud-native web application** for the **management of interns**, covering onboarding, tracking, and administrative workflows.

- Deployed the application on **AWS EKS (Kubernetes)** using a fully containerized architecture.

- Designed and implemented **end-to-end CI/CD pipelines** using **Jenkins**, **Docker**, **Terraform**, and **GitHub Actions**.

- Implemented **IAM security controls** and **application and infrastructure monitoring** using **Prometheus** and **Grafana**.

Web Developer — Internship, ESPRIT   Jul 2023 – Aug 2023

- Designed and developed a **web platform that scrapes official educational websites** to collect and aggregate online courses.

- Implemented **Python-based web scraping modules** to extract course metadata such as title, provider, duration, and difficulty level.

- Normalized and stored scraped data in a structured database for efficient search and filtering.

- Developed backend services to rank and recommend the **best courses based on user search criteria**.

- Built a responsive web interface allowing users to search, compare, and discover relevant courses from trusted sources.

- Ensured data reliability by targeting only **official and verified course providers**.

Network Engineer Intern (C-NOC) — Tunisie Telecom   Aug 2021 – Sep 2021

- Worked in the national B2B Network Operations Center.

- Monitored enterprise network links and handled connectivity incidents.

- Assisted in troubleshooting routing and service availability issues.

Academic & Technical Projects

Enterprise Monitoring Platform — RFC

- Designed and implemented **custom Grafana dashboards** to monitor cloud and infrastructure environments.
- Developed a **custom Python exporter** that communicates with **Azure Stack Hub APIs** using **Azure AD application registration** for secure authentication.
- Collected infrastructure and platform metrics through the exporter and exposed them in **Prometheus-compatible** format.
- Integrated **Prometheus** for metrics scraping, storage, and alerting rule evaluation.
- Visualized metrics and alerts in **Grafana** dashboards to improve operational visibility and response time.
- Delivered a fully **code-driven monitoring solution**, with all components **containerized using Docker**.

DevOps CI/CD Platform — ESPRIT

- Built an end-to-end CI/CD pipeline using Jenkins, Docker, Docker Compose, SonarQube, and Nexus.
- Deployed Angular frontend and Spring Boot backend applications.
- Implemented monitoring with Prometheus and Grafana.

OpenStack Private Cloud Lab — ESPRIT

- Designed and deployed a multi-node OpenStack private cloud as part of academic infrastructure projects.
- Connected physical nodes via VPN networking and implemented virtual networks, subnets, and routing.
- Deployed and operated virtual machines and full-stack web applications in the OpenStack environment.

Education

Software Engineering Degree — ESPRIT   2020 – 2025
Ariana, Tunisia

Languages

Arabic (Native) | English (B2) | French (B2)