

AHMAD BENSALAH

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Sfax, Tunisia · open to relocation in Europe

Profile

Data Engineering student (Faculty of Sciences of Sfax, graduating 2027), **seeking a 6-month final-year internship (PFE) starting February 2027 in DevOps, Cloud or MLOps**. Experienced in deploying multi-tenant **Kubernetes** platforms, automating infrastructure with **IaC and GitOps**, and designing AI agents, agentic AI workflows and RAG architectures.

Professional Experience

- OLIVESOFT – MLOps & DevOps Intern, Sfax** **Jun – Aug 2026**
- Designed and deployed a **Kubeflow** platform on a private cloud (Proxmox, Terraform, Ansible, Kubernetes) to pool AI resources across several research teams (LAMBDA unit).
- Diwan FM – DevOps Engagement, Tunisia** **Apr 2026**
- Contributed to deploying the **Diwan Sport** platform on an on-premises datacenter: infrastructure provisioning and **CI/CD** pipeline automation.
- SIFAST – DevSecOps Intern, Sfax** **Jul – Aug 2025**
- Built a fully automated **DevSecOps** pipeline for Spring Boot applications: GitOps, continuous deployment, centralized monitoring, real-time alerting and integrated security scanning.
- Orange Djağora Fablab – Full Stack Intern, Sfax** **Jul 2024**
- Developed a web platform recommending tourist itineraries using cosine similarity (Angular, Django).

Technical Skills

- Cloud & orchestration** Kubernetes, Docker, Helm, Kubeflow, KServe, MLflow, Proxmox, Longhorn, AWS (EKS), Azure (AKS), GCP (GKE)
- IaC & CI/CD** Terraform, Ansible, ArgoCD, GitHub Actions, Jenkins
- Observability & security** Prometheus, Grafana, OpenTelemetry, Trivy, SonarQube, Vault, Kyverno
- Generative & Agentic** AILangChain, LangGraph, n8n, CrewAI, RAG, MCP, ChromaDB, LLM orchestration, multi-agent systems
- Networking** Istio, VPC, VPN/IPSec, DNS, load balancing
- Languages & frameworks** Python, Bash, SQL, Java *Frameworks:* FastAPI, Django, Spring Boot
- Methodologies** GitOps, MLOps, DataOps, DevSecOps, LLMOps, Agile/Scrum

Projects

- Multi-Tenant MLOps Platform & Self-Service Portal**
Proxmox, Terraform, Ansible, MicroK8s, Kubeflow, Istio, Longhorn, FastAPI
- Deployed a **Kubeflow 1.10** cluster on Proxmox with Terraform/Ansible, Longhorn and Istio; built a FastAPI portal for multi-tenant onboarding with SSO, RBAC, CPU/RAM/GPU quotas and pipeline pre-provisioning.
- SRE Copilot: AI Agent-Driven GitOps Remediation**
AKS, n8n, Azure OpenAI, ArgoCD, Prometheus, Kyverno
- AI agent that triages alerts, investigates read-only and proposes a runbook. Every fix goes through a **GitOps PR** validated by CI (Helm, Kyverno) and deployed by ArgoCD, with **automatic rollback** and a generated post-mortem.
- n8n AI Agents: AI DevPortal (GKE) and Teams ChatOps (EKS)**
n8n, Vertex AI, AWS Bedrock, ArgoCD/Rollouts, Kyverno, AWS IAM
- DevPortal:** natural-language requests turned into validated blueprints (never free-form YAML), Kyverno dry-run, auto-expiring ephemeral environments.
 - ChatOps:** Teams bot with plan/execute modes, safelist-based plans, **human approval**, append-only audit log, canary with automatic rollback.
- SignBridge: Tunisian Dialect ↔ Sign Language Translation**
Azure AKS, ACR, FastAPI, STT/TTS, BiLSTM, MediaPipe
- Inclusive real-time AI solution on AKS (speech → sign language and back) built as microservices.

Education

- Faculty of Sciences of Sfax (FSS)** **2022 – 2027 (expected)**
Engineering Degree in Data Engineering (5-year program), after integrated preparatory cycle (2 years) *Sfax, Tunisia*
- Lycée Mahmoud Megdiche** **2022**
Baccalaureate in Mathematics, with Honors *Sfax, Tunisia*

Publications, Awards & Leadership

- Publication:** “Dual-Core Defense: A Neuro-Symbolic Generative Framework for Automated Detection of Zero-Day Hardware Vulnerabilities in SoC Designs”, IEEE IECON 2026, Doha (paper accepted).
- 1st Prize**, IEEE WIEACT 4.0 Challenge; **2nd Prize**, IEEE PESTGM 7.0 (national congresses).
- Competitive programming:** IEEEEXtreme 18, 19 & 20; TCPC 2023 & 2024.
- Chair**, IEEE CIS FSS (2025–2026); **HR Lead**, GDSC FSS (2024–2025); **Treasurer**, IEEE FSS SB (2024–2025).

Certifications & Languages

- Certifications** Certified Kubernetes Administrator (Linux Foundation) – *in progress* · NVIDIA Fundamentals of Deep Learning
- Languages** Arabic (native) · French (C1) · English (B2, Cambridge FCE) · German (A2)
- Interests** Chess, padel, football, camping