

# Mohamed ARKID

## Independent DevOps & Cloud Consultant

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### SUMMARY

DevOps & Cloud Consultant. I help startups cut AWS costs, build Kubernetes platforms, and ship with zero-downtime CI/CD pipelines.

### EXPERIENCE

#### DevOps Engineer · PROCIA

Internship · 01.2026 – 05.2026

- Deployed and operated containerized AI automation services on Kubernetes (Deployments, Services, Ingress, ConfigMaps/Secrets).
- Packaged services with Docker and managed releases through CI/CD pipelines.
- Tuned resource requests/limits and autoscaling so automation jobs ran reliably under variable load.
- Monitored cluster health and troubleshoot pod, networking and scheduling issues in production.
- Worked with the development team to move new AI features from build to deployment.

Kubernetes · Docker · CI/CD · Linux · Python

#### DevOps Engineer · Phaxel

Full-time · 07.2025 – 01.2026

- **Infrastructure Architecture:** Architected and managed AWS cloud infrastructure for a high-volume EDI validation platform, ensuring sub-second API latency for thousands of daily payloads.
- **Kubernetes:** Built a production-grade Kubernetes cluster from scratch on VMware for internal microservices, eliminating deployment bottlenecks and speeding up releases.
- **Zero-Touch Automation:** Replaced manual runbooks with automated n8n workflows for CI/CD and monitoring, removing recurring manual engineering toil.
- **Backend Scaling:** Deployed and secured FastAPI backend services on AWS, maintaining strict compliance for sensitive supply chain data.

AWS · Kubernetes · Docker · VMware · FastAPI · n8n · CI/CD · Cloud Security · Monitoring

#### DevOps Engineer · BookAsfar

Full-time · 02.2025 – 07.2025

- **CI/CD Modernization:** Designed automated GitOps pipelines using GitLab CI/CD and Docker, cutting deployment lead time from hours to under 10 minutes.
- **Infrastructure as Code:** Migrated manual infrastructure to Terraform on AWS, establishing a 100% reproducible and auditable cloud environment.
- **Observability:** Deployed Prometheus and Grafana to monitor Kubernetes workloads, enabling proactive incident response before users noticed issues.

GitLab CI/CD · Docker · Terraform · AWS · Kubernetes · Prometheus · Cloud Infrastructure · Automation

- **Backend Engineering:** Developed high-performance RESTful APIs using Java Spring Boot and PostgreSQL for enterprise applications.
- **Security:** Implemented robust authentication and session management protocols.
- **Containerization:** Championed the containerization of the application stack using Docker to standardize local and staging environments.

Java · Spring Boot · PostgreSQL · REST API · Authentication · Docker

## OPEN SOURCE

**aws-ec2-reaper** — Tag-driven Lambda + Terraform module that stops non-production EC2, RDS and ECS outside working hours.

**aws-cur-analyzer** — Python parser for AWS Cost & Usage Reports that surfaces the biggest per-resource cost drivers.

**aws-vpc-endpoints-terraform** — Terraform module that routes private-subnet traffic through VPC Endpoints instead of the NAT Gateway.

## PROJECTS

### BTP AI: Odoo + n8n + OCR for Moroccan Construction

Construction-site management for Moroccan BTP companies on Odoo 19 Community, with no enterprise licence. - **\*\*Field invoice intake:\*\*** site managers send a photo or PDF to a Telegram bot; n8n runs it through self-hosted OCR (or a vision API with automatic fallback) and creates a draft vendor bill in Odoo. - **\*\*Posting guard:\*\*** every OCR bill lands as a draft, and low-confidence reads are flagged for an accountant to check against the original. - **\*\*Moroccan business rules:\*\*** progressive billing (\*situations de travaux\*), guarantee retention with the 7% public-contract cap, a real-time margin view per site, and a printable A4 \*situation\* with tripartite signatures. - **\*\*Operations:\*\*** Docker Compose, deploy on green CI with a database copy before each release and automatic rollback, scripted database and filestore backups.

Odoo 19 · Python · n8n · Tesseract OCR · PostgreSQL · Docker

### MailProof: Email Deliverability Checker

A live tool that explains why a domain's email fails authentication, and decodes bounce messages into a cause and a fix. - **\*\*Checks SPF, DKIM, DMARC and MX\*\***, follows every SPF include, counts DNS lookups against the limit of 10, and hands back the exact record to publish. - **\*\*Fast:\*\*** independent lookups run in parallel, which cut a check from 3–4 seconds to under half a second in replay tests. - **\*\*Production-run:\*\*** CLI, HTTP API and web page, 124 tests, per-client rate limiting, deploy on push to main, and an hourly uptime and certificate check from outside. - **\*\*Proven on a real domain:\*\*** used to set up sending for moarkid.com, which now passes SPF, DKIM and DMARC in Gmail and scores 10/10 on mail-tester.

Python · FastAPI · DNS · Docker · Caddy · GitHub Actions

## SKILLS

AWS · Azure · Kubernetes · Docker · Terraform · Ansible · Python · Go · Git · GitHub Actions · Prometheus · Grafana · Linux · PostgreSQL · NGINX

## EDUCATION

Master's degree, Embedded Systems and Digital Services — Université Ibn Zohr

2023 – 07.2025

Bachelor's degree, Computer Software Engineering — Université Ibn Zohr

2020 – 2023