

Mohamed Awad

AWS Cloud Engineer | DevOps | Platform Engineer

CNPA · CKAD · AWS SAA

Cairo, Egypt · Open to international relocation

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SUMMARY

AWS Cloud Engineer with CNPA, CKAD, and AWS SAA certifications and production experience designing, deploying, and operating cloud-native infrastructure on AWS. Hands-on experience with Kubernetes/EKS, Terraform, GitOps, CI/CD, cloud automation, and Platform Engineering, including managing 9 EKS clusters across multiple regions and accounts supporting 200+ microservices. Built and operated an internal developer platform using Backstage with a FastAPI automation backend and Azure SSO, enabling self-service infrastructure. Security-focused engineer with previous vulnerability research experience and 8 responsibly disclosed CVEs. Passionate about building scalable and reliable cloud solutions, and looking forward to pursuing new opportunities abroad, experiencing new cultures, and collaborating with diverse teams.

CERTIFICATIONS

Certified Cloud Native Platform Engineering Associate (CNPA)	August 2026
Certified Kubernetes Application Developer (CKAD)	March 2026
AWS Certified Solutions Architect – Associate (SAA-C03)	November 2024
AWS Certified Cloud Practitioner (CLF-C02)	September 2024

EXPERIENCE

AWS Cloud Engineer – Professional Services June 2026 – Present

ZainTech (AWS Advanced Tier Services Partner across the Gulf and MENA region) · Cairo, Egypt

- Deliver client-facing AWS engagements, collaborating with enterprise customers, project managers, and solution architects to design and implement scalable cloud solutions.
- Conduct discovery workshops and technical assessments to evaluate environments and define cloud adoption strategies.
- Design and implement AWS cloud architectures across compute, networking, security, storage, and managed services.
- Implement cloud migration and modernization projects from assessment and planning through deployment.
- Develop Infrastructure as Code and automation solutions using Terraform and cloud-native tooling to enable secure, scalable cloud deployments.

DevOps Engineer Feb 2025 – May 2026

Al-Matar (leading Saudi travel platform, 4.5M+ app downloads) · Cairo, Egypt

- Managed and operated 9 Kubernetes clusters (AWS EKS) across multiple regions and accounts, supporting multi-tenant environments and a fleet of 200+ microservices with GitOps deployments via ArgoCD, Helm, and GitLab CI/CD.
- Provisioned production EKS cluster using Terraform Cloud with cross-region networking via Transit Gateway; installed and configured core infrastructure components including ArgoCD and monitoring stack via Helm.
- Configured IAM roles and Kubernetes service accounts with least-privilege permissions, implementing IRSA for pod-level AWS access; managed application secrets and database credentials via HashiCorp Vault with automatic rotation.
- Designed and built Backstage-based internal developer platform with modular FastAPI automation backend and Azure SSO integration, reducing infrastructure provisioning from hours to minutes.
- Administered MySQL and MongoDB databases including provisioning, backup, and restore operations; automated backup schedules via Kubernetes CronJobs with Vault-managed dynamic credentials.
- Monitored and maintained production services using Prometheus, Grafana, and ELK; managed DNS, routing rules, and multi-layer caching (CloudFront, Cloudflare). Participated in on-call rotation for incident response.

Security Researcher Feb 2024 – Nov 2024

Wordfence · Remote, USA

- Discovered and responsibly disclosed 8 CVEs in WordPress plugins affecting thousands of live websites, specializing in XSS, SQLi, CSRF, LFI, and RFI vulnerability classes.

- Conducted deep manual code reviews across large codebases, developing a security-first mindset applied to infrastructure hardening, secure defaults, and code review.

Verify: wordfence.com/threat-intel/vulnerabilities/researchers/mohamed-awad

TECHNICAL SKILLS

Cloud Platforms: AWS (EKS, EC2, S3, Lambda, RDS, DynamoDB, CloudWatch, Route53, API Gateway), Cloudflare

Infrastructure as Code: Terraform, Terraform Cloud, Ansible, CloudFormation, Helm

Kubernetes & Containers: Kubernetes, Docker, ArgoCD, GitOps, Istio

CI/CD & Automation: GitLab CI/CD, GitHub Actions, AWS CodePipeline, Backstage (IDP)

Observability & Security: Prometheus, Grafana, ELK Stack, HashiCorp Vault, IAM, IRSA, RBAC, Secrets Management

Languages: Python, Go, TypeScript, JavaScript, Bash

Backend & Databases: FastAPI, NestJS, Express.js, Node.js, REST APIs, Kafka, RabbitMQ, MySQL, PostgreSQL, MongoDB, Redis

PROJECTS

Backstage PyActions — FastAPI framework for Backstage automation

github.com/MohamedAwad9k8/backstage-pyactions

- Open-source, production-grade framework enabling platform teams to expose Python automation as Backstage scaffolder actions via REST API, eliminating the need to rewrite workflows in Node.js/TypeScript.
- Architected with module auto-discovery from YAML config, Pydantic validation, built-in GitLab/GitHub providers, Docker and Kubernetes deployment with Helm chart, published on [ArtifactHub](#).
- Comprehensive documentation including Backstage integration guides, K8s deployment patterns, and working templates for GitHub and GitLab scaffolding.

Cloud-Native Wallet Service — FastAPI, Kubernetes, Helm, Istio, Prometheus/Grafana, GitHub Actions

github.com/MohamedAwad9k8/wallet-service-k8s

- Production-grade financial microservice with idempotent transactions (DB-level unique constraint), atomic concurrency control ensuring balance checks and updates execute as a single atomic operation, and Decimal arithmetic for exact financial calculations.
- Full observability stack: Prometheus custom metrics, RED method Grafana dashboard, cross-namespace ServiceMonitor, and three PrometheusRule alerts (error rate, latency, crash looping).
- Istio service mesh with mTLS, VirtualService and DestinationRule for canary routing, Helm chart with configurable monitoring and mesh toggles, CI/CD via GitHub Actions pushing to GHCR.

Cloud-Native Web Application — Terraform-Managed AWS Serverless Stack

resume.mo2cloud.com

- Designed and deployed serverless infrastructure across 10+ AWS services using Terraform: Lambda (Python), API Gateway, DynamoDB, S3, CloudFront CDN, Route53, ACM, IAM, and CloudWatch.
- Fully automated Infrastructure as Code with modular Terraform configuration; CI/CD pipeline with GitLab CI/CD for zero-downtime deployments.

EDUCATION

Ain Shams University · Bachelor's Degree, Electrical Engineering · Cairo, Egypt

Feb 2024

Engineering coursework covering automation and control systems, IoT, programming, electronics, electrical drives, and power systems. Relevant areas include industrial automation, control systems, IoT, electrical drives, UPS and backup power systems, electrical distribution, electrical equipment, and electrical infrastructure design for large-scale facilities.

LANGUAGES

English — Fluent · **Arabic** — Native · **German** — Elementary (ÖSD A1)