

KHALED HOSSAMELDIN

DevOps & Cloud Engineer

Infrastructure as Code · CI/CD · AWS

6th of October City, Egypt · Open to remote & relocation · +20 102 070 0343 ·

contact@khaledhossameldin.com

khaledhossameldin.com · github.com/KhaledHossameldin · linkedin.com/in/khaled-hossameldin

SUMMARY

Software engineer with 5+ years shipping production applications, pivoting into cloud and platform engineering. Production-proven on AWS and Infrastructure as Code: designed and operate a complete live system as Terraform — AWS (S3, CloudFront, Lambda, API Gateway, SES) deployed through keyless GitHub Actions OIDC, with least-privilege IAM and SHA-pinned pipelines. Backed by intensive hands-on training across the cloud-native stack — Kubernetes, Helm, ArgoCD, Docker, Istio, Prometheus/Grafana, and Ansible — plus a strong CI/CD and release-automation foundation from years of mobile delivery (GitHub Actions, GitLab CI, Fastlane).

CORE SKILLS

Cloud & IaC: AWS (S3, CloudFront, Lambda, API Gateway, IAM, ACM, SES, EKS, ECS), Terraform (modular, remote state, multi-provider)

Containers & Orchestration: Docker, Kubernetes, Helm, Istio

GitOps & CI/CD: ArgoCD, GitHub Actions (OIDC federation, SHA-pinned), GitLab CI, Fastlane

Automation & Config: Ansible, Bash / shell scripting

Observability: Prometheus, Grafana, CloudWatch

Security & Reliability: Least-privilege IAM, OIDC (no long-lived keys), Origin Access Control, SSE, security headers (HSTS), cache-control strategy

OS, Tooling & Languages: Linux, Git, VS Code; JavaScript / Node.js, Dart

Spoken Languages: English (Fluent), German (B2), Arabic (Native)

FLAGSHIP PROJECT

Cloud Infrastructure — Personal Portfolio Platform

Sole author · 2026

Live, fully infrastructure-as-code — khaledhossameldin.com

- Provisioned all AWS infrastructure as Terraform code: private S3 + CloudFront with Origin Access Control, ACM TLS, and a serverless contact path (API Gateway → Lambda → SES) — reproducible from code, no console clicks.
- Built a keyless CI/CD pipeline: GitHub Actions assumes an AWS role via OIDC federation (no long-lived credentials), builds, syncs to S3, and invalidates CloudFront; every third-party action pinned to a full commit SHA.
- Hardened the stack: least-privilege IAM deploy role, private bucket (OAC only), CloudFront security headers (HSTS, X-Frame-Options, nosniff), and a two-pass cache strategy (immutable hashed assets vs. revalidated HTML).
- Outcome: 100/100 Lighthouse across all categories; zero standing infrastructure cost beyond usage; the repository itself serves as the proof of the IaC and CI/CD practices.

PROFESSIONAL EXPERIENCE

Software Engineer — AbyDOS

Sohag, Egypt (Freelance) · Feb 2026 – Present

Concurrent freelance engagement; primarily on the mobile team.

- Building two production Flutter apps from scratch on a reusable, testable Clean Architecture + BLoC foundation; contribute to QA and cross-platform release validation.

Software Engineer — Core Systems Technology

Cairo, Egypt · Feb 2024 – Present

Joined as a contractor (Feb 2024 – Feb 2025), converted to full-time Feb 2025.

- Standardized the iOS/Android release pipeline with GitHub Actions and Fastlane, automating build, code-signing, and store deployment.
- Built multi-tenant, flavor-based build infrastructure enabling reliable per-client (white-label) delivery from a single codebase.
- Implemented automated unit, widget, and integration test pipelines with performance monitoring, reducing post-release defects and improving reliability.
- Mentored engineers on CI/CD and structured code-review practices.

Software Developer (Contract)

Remote · Sep 2021 – Feb 2025

Concurrent freelance client engagements.

Wide Technology

Riyadh, Saudi Arabia · Nov 2021 – Feb 2025

- Automated cross-platform build and store-deployment workflows; integrated REST APIs with async handling and caching, cutting screen load times by roughly 50%.
- Resolved 50+ production issues through systematic debugging and root-cause analysis, improving stability and reducing support load.

Projectech

New Cairo, Egypt · Sep 2021 – Aug 2022

- Delivered and shipped applications across domains with iterative, automated release cycles.

OPEN SOURCE & PUBLICATION

- **telephony_sms** — Open-source Flutter plugin (pub.dev) with native Android integration over platform channels; published and maintained. pub.dev/packages/telephony_sms
- **Genetic Algorithm Golden-Ratio Design Model** — Peer-reviewed Springer book chapter (2022). doi.org/10.1007/978-3-031-07512-4_8

CERTIFICATIONS & PROFESSIONAL DEVELOPMENT

- **AWS Certified Cloud Practitioner (CLF-C02)** — AWS, earned.
- **AWS Certified Solutions Architect – Associate** — in progress.
- **KodeKloud — Cloud-native engineering (hands-on labs)** — Intensive lab-based training across Kubernetes, Helm, ArgoCD, Docker, Istio, Prometheus, Grafana, Ansible, shell scripting, and Jenkins; applying these toward production projects beyond the portfolio platform.

EDUCATION

B.Sc. Computer Science

2017 – 2021

MSA University (Egypt) in partnership with the University of Greenwich (UK).