

Omar Mohamed Fathy

Senior DevOps Engineer

✉ omarmfathy219@gmail.com ☎ (+20)1026734847 📍 Cairo, Egypt

🌐 <https://www.linkedin.com/in/omarmfathy219> 🔄 <https://github.com/OmarMFathy219>

📖 <https://stackoverflow.com/users/10609006/omar-m-fathy> 💎 <https://omarfathy.hashnode.dev>

🏆 <https://www.credly.com/users/omarmfathy219> 🔗 <https://omarfathy.dev>

📄 Summary

A Multi-Cloud DevOps Engineer with 5+ years of experience, Skilled in scripting, Kubernetes, and multi-cloud platforms (AWS, GCP, Azure). Proficient in infrastructure as code and the full DevOps lifecycle, including CI/CD pipelines, monitoring, delivery, and deployment. Dedicated to designing scalable, efficient, and innovative solutions that enhance system reliability and drive operational excellence.

🧠 Skills

- Cloud Platforms: AWS, GCP, Azure and OCI
- CI/CD Tools: Jenkins, GitHub Actions, Circle CI and ArgoCD
- Scripting and Programming Languages: Bash, Python, Nodejs and JavaScript
- Monitoring: Grafana, Prometheus, Datadog, Jaeger, New Relic, Sentry and SonarQube
- Version Control: Git and GitHub
- Web Servers: Apache and Nginx
- Database: PostgreSQL, MySQL, DynamoDB, MongoDB and Redis
- Configuration Management: Ansible
- Containerization and Orchestration: Docker, Kubernetes, Helm and Karpenter
- Infrastructure as Code (IaC): Terraform, Terragrunt and CloudFormation
- Logging: Elastic Stack and EFK Stack
- DevSecOps: Trivy, Kube-Bench, GitLeaks and GitGuardian
- API Gateway: APIGEE, and Kong
- Identity & Access Management: Keycloak and Vault

📁 Work Experience

Senior DevOps Engineer

04/2024 – present | Cairo, Egypt

Rabbit 📧

• Infrastructure & Cost Optimization

- Led cloud cost optimization initiatives, achieving **35% infrastructure cost reduction** by implementing Karpenter, HPA, and VPA, and improving Kubernetes resource utilization by **40%**.
- Reduced CI/CD operational costs by **60%** through migrating to self-hosted GitHub Actions runners.
- Designed and built a **centralized AI-driven FinOps platform on Kubernetes** integrated with **AWS Cost Explorer** via MCP (Model Context Protocol), enabling teams to query cloud costs, trends, and forecasts using natural language.
- Developed an **MCP Hub (Node.js)** exposing Cost Explorer capabilities (cost analysis, comparisons, forecasting, cost drivers), enabling real-time **cost visibility, anomaly detection, and optimization recommendations** across multiple AWS accounts and services, supporting engineering and finance collaboration.

CI/CD & Automation

- Designed and implemented centralized, scalable CI/CD workflows using **GitHub Actions, Docker, Kubernetes, Helm, and Terraform**, enabling fast, reliable, and consistent deployments.
- Migrated legacy AWS infrastructure to **Terraform-managed IaC** with disaster recovery capabilities.

• Kubernetes & Container Orchestration

- Managed multi-cluster Kubernetes environments with a strong focus on high availability, scalability, and resilience.
- Implemented disaster recovery for EKS using **Velero** with automated backup and restore workflows.

• Observability & Monitoring

- Deployed and operated centralized logging platforms using **EFK (Elasticsearch, Fluentd/Fluentbit, Kibana)** and **Loki** for real-time log aggregation and analysis.
- Integrated **Datadog** for full-stack observability, including dashboards, alerts, SLOs, and incident response workflows.

• Security & DevSecOps

- Deployed **HashiCorp Vault** for centralized secrets management with automated rotation and access policies.
- Integrated **Trivy** for container image vulnerability scanning and **SonarQube** for SAST and code quality checks in CI/CD pipelines (shift-left security).
- Centralized WAF and security logs in Elasticsearch and Kibana for threat detection and analysis.
- Enforced security best practices across Kubernetes, CI/CD, and cloud infrastructure.

Senior DevOps Engineer (Part-Time)

09/2023 – 03/2026 | Cairo, Egypt

CyberTalents

- Developed API using Flask, Python, MongoDB, and Redis for queuing, enabling challenge creation in the CyberTalents environment with a server-worker architecture, supporting client-specific deployments in shared AWS accounts and the CyberTalents platform.
- Developed Helm charts for API v2 to manage deployment configurations.
- Integrated CyberTalents products into a “one-shot” solution to launch a demo version of the product on-demand, including all infrastructure for single-tenant group pages.
- Enhanced challenge creation automation using GitHub Actions for efficient resource usage and testing.
- Migrated CyberTalents infrastructure, including Kubernetes clusters, from AWS (EKS) to Azure (AKS).
- Provisioned infrastructure resources using Terraform and Terragrunt, with automated management and deployment through Atlantis.
- Implemented monitoring for Kubernetes clusters, including Application Performance Monitoring (APM) using New Relic.
- Used Terraform to create and manage NewRelic alerts for application and infrastructure monitoring.
- Automated daily reports to monitor the number of running containers and machines across client and production environments using AWS Lambda functions. Also utilized Lambda for infrastructure cleanup, removing unused resources efficiently.

DevOps Engineer

01/2024 – 04/2024 | Cairo, Egypt

Buguard

- Implemented Jenkins CI/CD Pipeline for automated deployment and continuous integration, leading the deployment of new releases and updates for APIs, ensuring seamless integration and minimal downtime.
- Enhanced AWS infrastructure by adding load balancers to improve the availability and reliability of production applications.
- Utilized AWS Lambda functions to automate tasks and improve the efficiency of infrastructure management.
- Conducted code analysis and quality checks using SonarQube to maintain code integrity and security.
- Implemented real-time scanning to prevent the inclusion of sensitive data like API keys, passwords, and certificates in source code, enhancing security measures.
- Collaborated with development teams to adhere to Gitflow methodology, ensuring efficient version control and collaboration.
- Implemented and effectively utilized NewRelic for comprehensive application and infrastructure performance monitoring and optimization.
- Integrated Sentry for Application Performance Monitoring (APM), providing real-time visibility into application performance and error tracking.
- Troubleshoot application configuration issues in testing, staging, and UAT environments.

DevOps Engineer

12/2022 – 01/2024 | Smart Village, Egypt

Vodafone Intelligent Solutions (_VOIS)

- Responsible for the production and availability of millions of users in the German market of the MVA (Mein Vodafone App).
- Maintaining the availability of the application on the Kubernetes cluster, which is hosted on AWS, for many applications like DXL DE.
- Create dashboards and alarms for monitoring the application
- and the infrastructure on different monitoring tools: Grafana, AWS, Prometheus, and Kibana.
- Deploy new releases of APIs on Jenkins.
- Deploy the infrastructure changes on the Concourse pipeline by changing the Terraform templates.
- Integrate with the developers and all teams to implement any required task.

- Provide on-call support as and when required.
- Solve day-to-day operational support issues.
- Prioritizing and managing several open cases at one time based on agreed Service Levels.
- Ensure that all incidents are solved within the agreed SLA.
- Update the technical documentation and the team knowledge base.
- Experienced in utilizing AWS and Azure for cloud infrastructure provisioning and deployment.
- Actively involved in deploying infrastructure changes and updates, leveraging Terraform templates.
- Integrated secret manager to securely manage application configuration and secrets across the team and infrastructure.

Software Engineer

03/2019 – 03/2021 | Smart Village, Egypt

CyberTalents

- Built Website UI.
- Built a Mobile Version of the website using SCSS Components.
- Refactored CSS structure and convert it to SASS(SCSS) Pre-processor using BEM Methodology.
- Developed TailwindCSS structure/components.

Education

Information Technology Institute (ITI)

07/2022 – 11/2022 | Cairo, Egypt

DevOps Track

- Completed the Intensive Code Camp, gaining comprehensive knowledge and practical experience in applying DevOps principles and practices.
- Proficient in using various DevOps tools and technologies to automate processes, improve collaboration, and enhance software delivery.

Misr Higher Institute for Engineering and Technology

09/2016 – 05/2020

Bachelor of Computer Science

Graduation Project: 3D Virtual Dressing Room (Excellent).

Certificates

- Certified Kubernetes Administrator (CKA) 
- Kubernetes and Cloud Native Associate (KCNA) 
- HashiCorp Certified: Terraform Associate (003) 
- AWS Certified Solutions Architect – Associate (SAA-C03) 
- AWS Certified Developer – Associate (DV-C02) 
- AWS Certified AI Practitioner (AIF-C01) 
- AWS Certified Cloud Practitioner (CLF-C01) 
- Google Cloud Certified - Professional Cloud Architect Certification (GCP-PCA) 
- Google Cloud Certified - Associate Cloud Engineer (GCP-ACE) 
- Google Cloud Certified - Cloud Digital Leader (GCP-CDL) 
- Microsoft Certified: Azure Fundamentals (AZ-900) 
- Microsoft Certified: Azure Data Fundamentals (DP-900) 
- Microsoft Certified: Azure AI Fundamentals (AI-900) 
- Microsoft Certified: Security, Compliance, and Identity Fundamentals (SC-900)
- Oracle Cloud Infrastructure Foundations 2021 Associate (1Z0-1085-21) 
- PagerDuty Foundational Practitioner Certification 
- Alibaba Apsara Clouder - Cloud Computing 
- GitLab Certified Git Associate 
- GitHub Administration 
- GitHub Foundations 