

# Tarek Zaki

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## Education

### Alexandria University

B.Sc in Electrical Engineering

Sep 2017 – Jul 2022

Grade: Very Good

### AWS re/Start Graduate, AWS

Cloud fundamentals and hands-on AWS training

May 2024 – Aug 2024

(Verified Credential)

## Experience

### Vodafone, Cairo

DevOps Engineer

May 2025 – Present

- Designing and automating scalable infrastructure and CI/CD pipelines for high-availability environments.

- Supporting DevOps practices and data platform operations using Kafka, NiFi, Hadoop, and HDFS.

- Integrated big data tools like Hive, Spark, Trino (Presto), and Sqoop for pipeline orchestration and analytics workloads.

- Working on IaC, compliance enforcement, and platform reliability across hybrid cloud setups.

- Enhancing internal tooling, automation workflows, and delivery processes within governance standards.

- Implemented workflow automation and integrations using n8n to streamline internal processes and notifications.

### Ortoscale, Slovenia

March 2025 – Present

DevOps & Observability Engineer

- Built Grafana dashboards with PromQL and VictoriaMetrics; integrated OpenSearch for log analytics.

- Automated observability stack provisioning and alerting for multi-tenant environments.

- Migrated microservices from Docker Swarm to Kubernetes using Helm and custom manifests.

### Giza Systems, Cairo

Sep 2024 – Feb 2025

Site Reliability Engineer

- Built and managed Kubernetes clusters (multi-master, kubeadm) for staging and production workloads.

- Developed a scalable messaging pipeline using MQTT, Kafka, and Elasticsearch.

- Implemented centralized logging with Fluent Bit, Loki, and Grafana.

- Automated CI/CD workflows with ArgoCD and Helm; explored OpenShift pipelines.

- Backed up clusters using Velero with MinIO while preparing for containerd upgrade, exploring update strategies.

## Projects

### DevOps CI/CD Pipeline with Infrastructure Hardening

(GitHub)

- Provisioned and configured three CentOS VMs with Vagrant for Jenkins, Gogs, and deployment infrastructure.
- Built a complete CI/CD pipeline: Gogs webhook → Jenkins pipeline → Ansible-based Apache deployment → Docker image export.
- Developed modular Ansible roles for secure Apache setup, log rotation, header hardening, and IP-based access control.
- Automated user creation, audit logging, service monitoring, and disk alerts using Bash, 'auditd', and hourly cron jobs.

### Cloud-Native Deployment for Campaign Management Platform

(Site)

- Designed and implemented a Docker Compose architecture for a multi-container Django application with Celery, Redis, PostgreSQL, and Nginx.
- Migrated PostgreSQL database to Amazon Aurora Serverless RDS for cost-effective auto-scaling and high availability.
- Configured Nginx as a reverse proxy and integrated TLS encryption using Certbot, managing custom domain routing and HTTPS termination.
- Developed CI/CD pipelines using Github Actions, allowing seamless deployment to an AWS EC2 instance upon each push to the main branch.
- Optimized backend by migrating to AWS Fargate, enabling horizontal scaling per task queue.

### Scalable Web Application on AWS

(GitHub)

- Deployed a highly available architecture with EC2 Auto Scaling, ALB, S3, and Route 53 across multiple AZs.
- Initially used self-managed MySQL, Memcached, and RabbitMQ; re-architected with RDS, ElastiCache, and Amazon MQ for scalability and maintainability.
- Automated deployment via Elastic Beanstalk with ACM, Route 53, CloudFront, and CloudWatch integration.

## Kubernetes Weather App Deployment

(GitHub)

- Containerized front-end and back-end services; deployed with Kubernetes deployments and StatefulSets.
- Configured Nginx Ingress with TLS, health checks, and routing for secure access and traffic control.
- Managed run-time configuration using ConfigMaps and Secrets to enforce secure, environment-specific deployments.

## Skills

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**Languages:** Bash, C/C++, Golang, OOP, Python

**Operating Systems:** Linux, Windows

**Cloud Platforms:** AWS, GCP, Azure

**Containers & Orchestration:** Docker, Kubernetes, OpenShift

**CI/CD Tools:** ArgoCD, Helm, Jenkins, Tekton

**Workflow Automation:** n8n

**Infrastructure as Code:** Ansible, Terraform

**Monitoring & Logging:** Datadog, ELK, Fluent Bit, Grafana, Loki, Prometheus

**Messaging & Streaming:** Kafka, Mosquitto, RabbitMQ

**Big Data & Analytics:** Hadoop, HDFS, Apache NiFi, Apache Hive, Spark, Trino , Sqoop , ClickHouse

**Version Control:** Git

**Spoken Languages:** Arabic (Native), English (C1), German (B1), French (A1)

## Certifications

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**Google Cloud Certified Professional Cloud Architect**

*Issued by Google Cloud*

**2026**

Verified Credential

**Google Cloud Certified Associate Cloud Engineer**

*Issued by Google Cloud*

**2025**

Verified Credential

**Kubernetes and Cloud Native Associate (KCNA)**

*Issued by Linux Foundation*

**2025**

Verified Credential

**AWS Certified Cloud Practitioner**

*Issued by Amazon Web Services*

**2024**

Verified Credential