Tarek Zaki

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Education

Alexandria University	**Sep 2017 – Jul 2022**
B.Sc in Electrical Engineering	Grade: Very Good
AWS re/Start Graduate, AWS	**May 2024 – Aug 2024**
Cloud fundamentals and hands-on AWS training	(Credly)

Experience

Vodafone, Cairo   May 2025 – Present
DevOps Engineer

- Designing and automating scalable infrastructure and CI/CD pipelines for high-availability environments.
- Supporting DevOps practices through config management, containerization, and performance tuning.
- Working on IaC, compliance enforcement, and platform reliability across hybrid cloud setups.
- Enhancing internal tooling, automation workflows, and delivery processes within governance standards.

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

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
Infrastructure as Code: Ansible, Terraform
Monitoring & Logging: Datadog, ELK, Fluent Bit, Grafana, Loki, Prometheus
Messaging & Streaming: Kafka, Mosquitto, RabbitMQ
Version Control: Git
Spoken Languages: Arabic (Native), English (C1), German (B1), French (A1)

Certifications

Google Cloud Certified Associate Cloud Engineer   **2025**
Issued by Google Cloud   ☐ Verified Credential

Kubernetes and Cloud Native Associate (KCNA)   **2025**
Issued by Linux Foundation   ☐ Verified Credential

AWS Certified Cloud Practitioner   **2024**
Issued by Amazon Web Services   ☐ Verified Credential