

# Tarek Zaki

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## Education

### Alexandria University

B.Sc in Electrical Engineering

Sep 2017 – Jul 2022

Grade: Very Good

## Experience

### Giza Systems, Cairo

Site Reliability Engineer

Sep 2024 – Feb 2025

- 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.

### MIA Robotics, Alexandria University

Electrical Team Lead

Dec 2019 – Jun 2022

- Led hardware integration and control logic for autonomous robots.
- Represented Egypt at ABU Robocon (China 2021, India 2022).

### Autotronics Research Lab, Ain Shams University

Embedded Hardware Research Assistant

Nov 2021 – Jan 2022

- Developed embedded hardware circuits and low-level drivers for autonomous vehicle control systems.

### Egyptian Space Agency, Cairo

Embedded Software Engineer

Jul 2021 – Sep 2021

- Developed control software for satellite tracking systems.

## Projects

### 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

**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

## Certifications

AWS Certified Cloud Practitioner (2024)

DevOps Bootcamp – Sprints