Tarek Zaki

✉ tareki9100@gmail.com 📞 +20 1111074448 📍 Alexandria, Egypt
🔗 linkedin.com/in/tarekwael99 ⌨ github.com/Tarek9100 🌐 tarek9100.github.io

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

Experience

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.

MIA Robotics, Alexandria University   Dec 2019 – Jun 2022
Electrical Team Lead

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

Autotronics Research Lab, Ain Shams University   Nov 2021 – Jan 2022
Embedded Hardware Research Assistant

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

Egyptian Space Agency, Cairo   Jul 2021 – Sep 2021
Embedded Software Engineer

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

Certifications

AWS Certified Cloud Practitioner (2024)
DevOps Bootcamp – Sprints