Ahmed ElSaeed

Alexandria, Egypt

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Education

Alexandria University Sept. 2019 – July 2024
Bachelor's Degree in Computer and Systems Engineering *Alexandria, Egypt*
CGPA: 3.57

Experience

Obelion.ai **April 2024 – Present**
DevOps Engineer *Remote*
- Architected and implemented a monitoring solution to monitor clients resources and applications on multi-cloud setup.
- Implemented an IaaS solution using CloudStack on a dedicated server, enabling clients to deploy and manage resources.
- Deployed multiple microservice applications on GKE ensuring scalability with security best practices.
- Migrated a three-tier application infrastructure across different environments from AWS to GCP.
- Developed an automated infrastructure that contains a GKE Cluster, MySQL, Redis, and Artifact Registry for a three-tier application using Terraform.
- Dockerized a Nextjs application, and reduced 85% of the image size by using a multi-stage build.

Master Micro **July 2022 – Sept 2022**
Software Engineer Intern *6th October, Egypt*
- Demonstrated 20% cost savings by migrating pipelines from AWS CodeBuild to GitHub Actions.
- Developed and deployed a Discord bot to integrate performance test results, improving issue assessment efficiency.

Certifications

- Professional Cloud Architect Certification
- Associate Cloud Engineer Certification

Projects

AuthPic – Graduation Project | *Golang, Gnark* **July 2024**
- A tool that authenticates images using zero-knowledge proofs.
- Implemented a system that authenticates pictures and allows permissible transformations while hiding identity.
- Evaluated and analyzed the system using two proof systems and compared it with recent related work.

Weather Stations Monitoring | *Kubernetes, Docker, Java, Kafka, Bitcask* **July 2023**
- Created and implemented K8s manifests for the project's services, including containerizing the central server and weather stations, setting up Kafka and Zookeeper clusters.
- Designed a log-structured hash table for storing updated weather status views and archiving with parquet files.
- Indexed weather statuses in ElasticSearch for querying via Kibana.

Student Unity | *TypeScript, Java, Angular, SpringBoot, MySQL* **December 2022**
- Automated task generation to enhance productivity and provided a user-friendly interface for course management.
- Established a notification system for updates on tasks, announcements, and deadlines.

Technical Skills

Languages: Python, Java, C++, Golang, SQL
Tools: Docker, Nginx, Kubernetes, Prometheus, Zabbix, Grafana, Ansible, Terraform, ArgoCD, GitHub Actions, AWS, Azure, GCP
Technologies/Frameworks: Apache CloudStack, Angular, SpringBoot, Neo4j, MySQL, Postgresql, JUnit

Volunteering / Extracurricular

ACM Alexandria Student Chapter **Aug 2023 – July 2024**
Speaker — Technical Team Member *Alexandria*
- Led an on-site DevOps session, providing hands-on training and insights into DevOps practices.
- Participated in a Q&A session as part of the ACM Radio team, addressing questions related to DevOps and sharing industry knowledge with fellow students.