

AHMED ELSAEED

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Education

Alexandria University

Bachelor's Degree in Computer and Systems Engineering

CGPA: 3.57

Sept. 2019 – July 2024

Alexandria, Egypt

Relevant Coursework

- Data Structures
- Algorithms Analysis
- Artificial Intelligence
- Computer Networks
- Software Engineering
- Database Systems
- Operating Systems
- Computer Architecture

Experience

Obelion.ai

DevOps Engineer

April 2024 – Present

Remote

- Dockerized a Nextjs application, and reduced 85% of the image size by using a multi-stage build.
- Developed an automated infrastructure that contains a GKE Cluster, MySQL, Redis, and Artifact Registry for a three-tier application using Terraform.
- Migrated a three-tier application development and testing environment from AWS to GCP.

Master Micro

Software Engineer Intern

July 2022 – Sept 2022

6th October, Egypt

- Demonstrated 20% cost savings by migrating pipelines from AWS CodeBuild to GitHub Actions.
- Developed a Discord bot to integrate performance test results, enhancing issue assessment by 25%.

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.

AnyCC | C++

January 2024

- Built a lexical analyzer generator to construct NFAs from regular expressions, converting them to minimized DFAs.
- Developed an LL(1) parser generator with a predictive parsing table, integrated seamlessly with the lexical analyzer.

Weather Stations Monitoring | Java, Kafka, Bitcask

July 2023

- 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, Ansible, Terraform, ArgoCD, GitHub Actions, AWS, Azure, GCP

Technologies/Frameworks: Angular, SpringBoot, MySQL, Postgresql, JUnit

Volunteering / Extracurricular

ACM Alexandria Student Chapter

Speaker

Aug 2023 – Present

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.