

AHMED ELSAEED

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EDUCATION

Bachelor's Degree in Computer and Systems Engineering

September 2019 — July 2024

Faculty of Engineering, Alexandria University, Egypt

- Cumulative GPA: **3.55**

WORK EXPERIENCE

Software Engineer Intern

July 2022 – September 2022

Master Micro

Remote

- Demonstrated cost savings by showcasing that GitHub Actions is 20% more cost-effective than AWS CodeBuild.
- Executed successful migration of pipelines from AWS CodeBuild to GitHub Actions.
- Spearheaded the development of a Discord bot, integrating critical performance test results, resulting in a 25% improvement in the team's ability to quickly assess and address performance issues.

TECHNOLOGIES

- **Languages** Java, Python, C, C++, Golang, SQL
- **Fair knowledge** Git, Bash, Angular, Spring Boot, MySQL, Docker, CI/CD, GitHub Actions, Jira
- **Familiar with** AWS, Azure, Linux, Jenkins, Terraform, Kafka, ElasticSearch, Kibana, Nginx

ACHIEVEMENTS

- Participated in **ICMTC CTF 2023**.
- Participated in **ECPC** Qualifications 2022.
- Secured 2nd/16 best project in Software Engineering course 2022.

PROJECTS

AnyCC | [View in GitHub](#) | C++

Dec 2023 – Jan 2024

- Developed a robust lexical analyzer generator that constructs NFAs from regular expressions, and converts them to minimized DFAs.
- Implemented an LL(1) parser generator that constructs a predictive parsing table, and drives a top-down parser, integrated seamlessly with the lexical analyzer from phase 1.

Weather Stations Monitoring | [View on GitHub](#) | Bitcask

May 2023 – July 2023

- Created a log-structured hash table (bitcask) to store updated views of weather status.
- Archived all weather statuses using parquet files.
- Directed all weather statuses to *ElasticSearch* for indexing and querying by *Kibana*.

Smart Connect 4 | [View in GitHub](#) | Java

Oct 2022 – Nov 2022

- Developed a smart AI agent with adjustable difficulty using MiniMax Algorithm and Heuristic Pruning.
- Created an interactive tree visualizer to show the agent's decision and the game's state.

Student Unity | [View on GitHub](#) | Angular | Java | Spring Boot | MySQL

Oct 2022 – Dec 2022

- Introduced automated task generation, enhancing productivity for registered students.
- Implemented a user-friendly interface with course plans, deadlines, assignments, and revision systems.
- Established a notification system for timely updates on tasks, announcements, and deadlines, improving communication.

LANGUAGES

Arabic – Native | English – C1 Advanced