

Ahmed Osama

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Experience



Microsoft Software Engineer

Jul 2025 – current
Cairo, Egypt

- integrated a **visual parity pipeline** using **Python** and **Bash** scripts to enable automated UI checks in **Clarity SDK**.
- Worked on the **Clarity JS release pipeline**, resolving all related issues and ensuring smooth automated deployment.
- Handled and analyzed **large-scale telemetry data** from thousands of websites using **ClickHouse**, automating validation and testing across domains.
- Designed an **end-to-end benchmarking pipeline** for **Clarity web applications** to evaluate performance and reliability across releases.

Internships



German Research Center for Artificial Intelligence (DFKI) Software Engineering Intern

Nov 2024 – Apr 2025
Berlin, Germany

- Provided the software architecture of **DORIAN**, a human-in-the-loop intelligent discovery assistant.
- Implemented different core parts of the system using different technologies : **Neo4j** , **NextJS** , **FastAPI**
- Implemented Hybrid Session Management solution using **Redis**, **MongoDB**



Microsoft Software Engineering Intern

Jul 2024 – Sep 2024
Cairo, Egypt

- Conducted profiling and optimization of background threads within the **Clarity SDK (Kotlin, Android)**.
- Developed a proof of concept (PoC) for transitioning from **WorkManager** to **JobScheduler**.
- Identified and **Resolved 3 Memory Leaks** at the SDK through Integrating **LeakCanary**.
- Implemented **baseline profiles** in the SDK to optimize runtime performance by **30%**.

Education

German International University

Bachelor's degree, Computer Science. (Major: Software Engineering. GPA: B+)

Sep 2021 - Jun 2025
Cairo, Egypt

- Awarded a **full scholarship** for outstanding high school academic performance, covering the entire 4 years of study.

Skills

Programming C/C++, Java , Kotlin , Python , JavaScript , SQL, C# , Node.js , React , MongoDB , Express

Miscellaneous Linux, Git, Docker, Kafka, AWS , PostgreSQL , Bash

Achievements

- **2x ICPC Regionalist**: Ranked **38th** in Arab Collegiate Programming Contest among top 250 teams. [ICPCID](#).
- **EOI Bronze Medalist**: Awarded a bronze medal in the Egyptian Olympiad in Informatics (EOI) in 2020.
- **MetaHackerCup 2023**: Achieved the stage of top 1000 programmers globally at Meta HackerCup. [Certificate](#).

Projects

Staff Help Desk Application

Jul 2023 – Sep 2023

- Built software to streamline support and ticketing processes, improving efficiency for both support agents and users.
- Implemented a real-time Notification and Chatting system using **Socket.IO** to facilitate seamless interactions between support agents and users.
- Integrated a comprehensive knowledge base feature, enabling users to resolve common issues independently.
- Built using **MERN stack (MongoDB, Express.js, React.js, Node.js)** to ensure scalability and responsiveness.

Cairo Metro System

Mar 2023 – Jun 2023

- Designed a web-based application that allows users to reserve and pay for metro tickets.
- Enabled users to view upcoming travels and manage their ticket information.
- Created an admin panel for managing metro stations, routes, and enabling the modification or deletion of these entities.
- Utilized **PostgreSQL** for database management, ensuring efficient data storage and retrieval.
- Built with **Express.js, React.js, and Node.js** to provide a responsive, full-stack user experience.