

Ahmed Osama

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Experience

 Microsoft	Jul 2025 – current
Software Engineer	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)	Nov 2024 – Apr 2025
Software Engineering Intern	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	Jul 2024 – Sep 2024
Software Engineering Intern	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	Sep 2021 - Jun 2025
Bachelor's degree, Computer Science. (Major: Software Engineering. GPA: B+)	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.	