

AHMED HAITHAM

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[Linkedin](#) ✦ [GitHub](#)

EDUCATION

Bachelor in Computer Science and Engineering , German University in Cairo	2020-2024	CGPA: B
Bachelor Thesis: Algebraic Logic of Desire		
Pre-Master's in Computer Science , German University in Cairo (Graduated)		2024-2025

SKILLS

Proficient knowledge: Java, OOP, Databases, Data Structures and Algorithms, Git, Docker, Kubernetes.
Prior Experience: Spring Boot, Django, Express, React, Python, C, C#, JavaScript, SQL.

EXPERIENCE

Software Engineer Intern July 2024 - September 2024
Vodafone Egypt *Hybrid*

- Implemented a real-time server monitoring application that tracks performance metrics for 4 servers, detecting high load conditions, reducing incident response time by 40% improving system reliability.
- Developed a load balancing mechanism to distribute traffic across 4 servers, achieving a 30% improvement in server efficiency.

NLP Research Engineer Intern July 2024 - September 2024
German University in Cairo *Hybrid*

- Conducted POS tagging on 3,000+ tokens, contributing to the development of enhanced language models.

Backend Developer Intern July 2023 - September 2023
Hadbok Insurances *Hybrid*

- Developed a tailored database schema to drive the company's website operations, which made data retrieval faster by 154% than before.
- Revamped most of the API routes, leveraging RESTful principles, and implementing techniques such as pagination, caching, and token-based authentication, leading to a 30% improvement in response time.

Software Engineer Intern July 2023 - August 2023
First Abu Dhabi Bank *On-Site*

- Created an application to manage employee absences by scanning a QR code using Spring Boot and PostgreSQL.

PROJECTS

CodeMedics, Full stack Microservices solution [clinic](#) and [pharmacy](#) website using **MERN** stack, Implemented features to synchronize communication between both platforms, including real-time chatting and video calls via WebSocket, and integrated Stripe API for secure payment processing.

Tomasulo Simulator, Simulator for dynamic instruction scheduling, enabling out-of-order execution and efficient utilization of multiple execution units in microprocessors.

Podzilla, Developed a distributed Warehouse and ERP system using a microservices architecture with Spring Boot. The system incorporates Redis for caching, Loki and Grafana for centralized logging and monitoring, and leverages Docker and Kubernetes for containerization and orchestration.

EXTRA-CURRICULAR ACTIVITIES

- Participated in several student activities in the university including [IEEE GUC](#), Enactus GUC and [Athar GUC](#).
- Fluent in French and English, with a good command of German.