

# Mohamed Aiad

mohamed.tarek.aiad@gmail.com — +20 127 421 9235 — [linkedin.com/in/maiad1](https://www.linkedin.com/in/maiad1)  
[github.com/mohamedaiad](https://github.com/mohamedaiad) — [leetcode.com/u/mohamedaiad](https://leetcode.com/u/mohamedaiad)

## Education

### Faculty of Engineering, Alexandria University

Bachelor in Computer and System Engineering

Alexandria, Egypt

Sep 2019 – Jul 2024

- **GPA:** 3.58/4.0
- **Academic Courses:** Data Structures, Algorithms, Design Patterns, Probability and Statistics, Numerical Analysis, Discrete Mathematics, Linear Algebra, Operating Systems, Networks, Database, Compilers, AI, Machine Learning, Deep Learning, Computer Architecture, Distributed Systems, Security, Designing Data Intensive Applications

## Experience

### Software Engineer

Ejada

Alexandria, Egypt

Aug 2024 – Present

- Contributed to the development of a high-performance mobile application serving a large user base (more than 20 million users), built with Micronaut and Java, utilizing a microservices architecture to ensure scalability and modularity.
- Implemented unit tests using Mockito to achieve 100% test coverage and ensure code reliability, improving system resilience.
- Utilized cloud services (Docker, Kubernetes, Jenkins) to automate deployment and monitoring in a CI/CD pipeline, cutting deployment time by 60% and reducing manual errors by 90%.
- Secured API communication internally and externally using Kong and Istio as gateway and service mesh tools, enhancing system security and routing efficiency by 70%.

### Software Engineer Intern

Ejada

Alexandria, Egypt

Jul 2023 – Aug 2023

- Developed a comprehensive school website project for grade tracking and semester registration, worked on backend modules and wrote 1,000+ lines of C# code using .NET and SQL Server.

## Awards

### Dell Hacktrick Hackathon – Third Place

Dell Technologies



Mar 2024

- Placed third by solving complex riddles in problem solving, computer vision, machine learning, and security
- Designed convolutional neural network (CNN) model with accuracy greater than 95% for voice fingerprint classification, demonstrating expertise in machine learning and API integration.
- Demonstrated strong teamwork by delivering innovative results in a competitive and fast-paced environment.

## Projects

### Graduation Project : Rosheta (Blockchain-Based Healthcare Data Manager)

Rosheta

- Developed a secure platform using Hyperledger Fabric, enabling patients to manage and share their medical portfolios with healthcare providers through a decentralized blockchain solution.
- Conducted interviews with 10+ doctors of different ages to identify daily challenges and optimize solutions.
- Built with Node.js, Flutter, MongoDB, and Hyperledger Fabric.

### School Website

school website

- Produced a full-featured web application tailored for schools, supporting 4 main roles such as staff, teachers, students, and parents to streamline educational processes and communication.
- Created unit tests with JUnit, working with MockBean and Mockito to mock data and ensure efficient test coverage of service layers. Achieved 100% test coverage.
- Executed with Spring Boot, Java, AngularJS, and MySQL.

### Producer/Consumer Simulation

Producer/Consumer

- Simulated real-time thread coordination between producers and consumers with configurable buffer (default 10 slots). Producers and consumers run independently, contributing 50% each to buffer activity at balanced speeds.
- Implemented with Spring Boot, Java, AngularJS, and MySQL.

## Technologies

**Languages:** C++, C, Java, Python, SQL, HTML, CSS, JavaScript, Scala

**Frameworks & Tools:** Spring Boot, .NET, Microsoft SQL Server, Git, GitHub, Docker, Kubernetes, Kafka, Jira

**Familiar With:** Big Data, Linux, Machine Learning, Deep Learning, Blockchain, SSIS