

Mohamed Mansour

Backend Engineer

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PROFILE

Computer Science student with a keen interest in backend development and a solid foundation in technical skills. I bring a multidisciplinary perspective by combining my passion for technology with an understanding of business and leadership. Committed to delivering meaningful contributions, I aspire to develop innovative solutions while advancing my growth as both an engineer and a future leader.

EDUCATION

Faculty of Computers and Artificial Intelligence, Tanta University

2022 – 2026

Bachelor of Computer Science

- **Cumulative GPA:** 3.1/4
- **Major:** CS

PROFESSIONAL EXPERIENCE

Ghaymah Systems - Devops Training

09/2025 – 10/2025

- Gained hands-on experience with cloud infrastructure and CI/CD pipelines using tools like Docker
- Learned the fundamentals of DevOps practices, including deployment automation and server monitoring

Artificial Intelligence – NTI/Huawei Egyptian Talent Academy Intern

01/2025 – 02/2025

Ministry of Communications and Information Technology

- **Score:** 100%
- **Duration:** 80 hours

ITI - IOT Summer Training

09/2025 – 09/2025

Information technology Institute

- **Duration:** 30 hours

PROJECTS

University Attendance System (Backend)

College Project | Collaborated with a teammate

- **Stack:** Node.js, Express, TypeScript, MongoDB, JWT, QR Code, Geolocation, Device Fingerprinting
- **Responsibilities:**
 - Developed backend APIs for attendance management with secure role-based access
 - Implemented dynamic QR code generation integrated with geolocation and device ID verification to prevent fraud
 - Designed data models for classes, sections, and attendance records
 - Built features for manual attendance recording, real-time attendance statistics, and Excel export functionality

Natours - Travel & Tour Booking Platform

Learning Project

- **Stack:** Express.js, MongoDB, Mongoose, JWT, RESTful APIs
- **Responsibilities:**
 - Implemented user authentication and authorization using JWT
 - Developed full CRUD functionality for tours, users, reviews, and bookings
 - Applied data validation, centralized error handling, and Express middleware
 - Enhanced API security with compression, rate limiting, and best practices

SKILLS

Programming Languages & Frameworks: JavaScript, TypeScript, Node.js, Express.js, NestJS

Databases & ORM: MongoDB, Mongoose, PostgreSQL, TypeORM

Core Computer Science Skills: Data Structures, Algorithms, Problem Solving, Object-Oriented Programming (OOP), Operating Systems

Backend Development Skills: RESTful API Design, Authentication & Authorization, Error Handling & Logging, Backend Security, Performance Optimization, Testing & Debugging

Tools & Technologies: Git, GitHub, Postman, Swagger/OpenAPI

Soft Skills: Communication Skills, Team Leadership, Teamwork, Project Planning

CERTIFICATES

- Artificial Intelligence – NTI/Huawei Egyptian Talent Academy Intern [↗](#)
- Ghaymah Systems - Devops Training [↗](#)
- ITI - IOT Summer Training [↗](#)

FAMILIAR WITH

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|----------|--------------------|-------|
| • HTML | • CSS | • C++ |
| • Python | • Machine Learning | |

LANGUAGES

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| • Arabic | • English |
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