

Mohamed Ahmed Mahmoud

Junior MEAN Stack Developer

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PROFESSIONAL SUMMARY

Junior MEAN Stack Developer with a strong foundation in Computer Science principles. Distinguishes self through rigorous study of Data Structures, Algorithms, and Discrete Math to complement practical development skills. Proficient in building scalable MVC architectures and RESTful APIs using Node.js, Express, and Python. Active competitive programmer using C++ to sharpen algorithmic logic and problem-solving efficiency.

EDUCATION

Diploma in Software Engineering (1-Year Intensive Program)

Sep 2025 – Jun 2026

EPIC Institute of Technology

- Completed a rigorous 12-month curriculum with comprehensive exams and practical assessments.
- Core Coursework:** Advanced Data Structures, Algorithms, Backend Architecture, System Design.
- Gained deep theoretical and practical knowledge comparable to formal CS degree requirements.

Bachelor of Tourism and Hospitality

Oct 2022 – Jul 2026

Mansoura University

PROFESSIONAL EXPERIENCE

Full Stack Developer Trainee

Mansoura, Egypt

National Telecommunication Institute (NTI)

Jun 2025 – Oct 2025

- Completed an intensive 400+ hour practical training program focused on MEAN stack architecture.
- Delivered freelance-grade technical tasks and projects within an Agile team environment.
- Translated business requirements into functional technical specifications and reusable code modules.

TECHNICAL SKILLS

- Backend Development:** Node.js, Express.js, Django, Django REST Framework (DRF), Python, JS/TS.
- Frontend:** Angular, HTML5, CSS3, Bootstrap.
- Databases:** MongoDB, Mongoose, PostgreSQL, MySQL.
- CS Concepts & Algorithms:** C++ (Competitive Programming), Data Structures (Sorting, Searching), Complexity Analysis, Discrete Math.
- Tools & Platforms:** Git, GitHub, Postman, MongoDB Compass.
- Emerging Tech:** ANTLR4 (Parsing), Data Science Fundamentals (Pandas).

FEATURED TECHNICAL PROJECTS

Coffee Shop MVC Application | Node.js, Express, MongoDB, MySQL

- Architected a complex MVC web application featuring a **dual-database system**: MongoDB for user data/sessions and MySQL for products/orders management.
- Developed a comprehensive Admin Dashboard with **Chart.js** analytics to visualize sales trends, managing inventory for **50+ products**.
- Implemented secure Role-Based Access Control (RBAC) and session management, reducing unauthorized access risks by **100%**.

SmartCart E-Commerce | Angular, Node.js, TypeScript

- Developed a full-stack e-commerce platform featuring dynamic product listings, cart management, and order processing.
- Engineered a responsive Single Page Application (SPA) using Angular, implementing **30+ unit tests** to ensure component stability.
- Optimized backend database queries and implemented lazy loading, reducing initial page load time by **40%**.

CERTIFICATIONS

- Advanced Django: Mastering Django and Django Rest Framework** (Codio)
- IBM Generative AI: Introduction and Applications**
- SQL for Data Science** (UC Davis)
- Foundations of Coding Full-Stack** (Microsoft)