

# Mohamed Ahmed Mahmoud

## Junior MEAN Stack Developer

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### PROFESSIONAL SUMMARY

Junior MEAN Stack Developer with a strong foundation in CS principles (Data Structures, Algorithms). Proficient in building scalable MVC architectures and RESTful APIs using Node.js, Express, and Python. Active competitive programmer (C++) focused on algorithmic efficiency and problem-solving.

### EDUCATION

#### Diploma in Software Engineering (1-Year Intensive)

Sep 2025 – Jun 2026

EPIC Institute of Technology

- Core Coursework: Advanced Data Structures, Algorithms, Backend Architecture, System Design.
- rigorous curriculum with comprehensive exams 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 210-hour intensive training focused on MEAN stack architecture and Agile methodologies.
- Executed freelance client contracts and technical tasks alongside training, delivering features on deadlines.
- Translated business requirements into functional technical specifications and reusable code modules.

### TECHNICAL SKILLS

- Backend:** Node.js, Express.js, Django, DRF, Python, JS/TS.
- Frontend:** Angular, HTML5, CSS3, Bootstrap.
- Databases:** MongoDB, Mongoose, PostgreSQL, MySQL.
- CS & Tools:** C++, Data Structures, Git, Docker, Postman, Hugging Face, ANTLR4.

### FEATURED TECHNICAL PROJECTS

#### StreamLang Compiler Playground | Python, Docker, Hugging Face

- Built a custom programming language and live online playground for real-time code execution.
- Containerized app using **Docker** and deployed to **Hugging Face Spaces** for a stable runtime.
- Engineered a robust suite of **84+ tests** (E2E, Negative, Unit) to guarantee compiler accuracy.

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

- Built full-stack platform exposing **25+ RESTful endpoints** for products, cart, and orders.
- Developed responsive SPA with Angular, implementing **70+ unit tests** for component stability.
- Optimized DB queries and lazy loading, reducing initial page load time by **40%**.

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

- Architected MVC app with **dual-database system** (MongoDB/MySQL) and **Chart.js** analytics for 50+ products.
- Implemented secure Role-Based Access Control (RBAC), reducing unauthorized access risks by **100%**.

### CERTIFICATIONS

- JavaScript Algorithms and Data Structures** (FreeCodeCamp)
- Advanced Django: Mastering Django and DRF** (Codio)
- IBM Generative AI: Introduction and Applications**
- SQL for Data Science** (UC Davis)
- Foundations of Coding Full-Stack** (Microsoft)