

MOHAMED EZZ ELDEN AHMED

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PROFILE

Final-year Computer Science student at South Valley National University with strong foundations in algorithms, data structures, and backend development. Three-time ECPC Finalist with 1,000+ competitive programming problems solved. Experienced in building scalable REST APIs, leveraging AI tools to accelerate development workflows, and delivering applications using Node.js, .NET, and MongoDB. Seeking a software engineering internship to apply problem-solving skills in real-world systems.

TECHNICAL SKILLS

Languages: C++, C#, JavaScript, SQL, HTML, CSS

Backend: Node.js, Express.js, ASP.NET Core (.NET), REST APIs

Databases: MongoDB, Microsoft SQL Server

Tools & Core: Git, GitHub, AI-Assisted Dev Tools, VS Code, Postman, Electron.js, CLion, Algorithms, Data Structures, OOP, SOLID Principles

EXPERIENCE

.NET Developer Trainee | Digital Egypt Pioneers Initiative (DEPI)

Remote | Dec 2025 – Jun 2026

- Developed backend services and robust web applications utilizing C# and ASP.NET.

ICPC Mentor | South Valley National University

Qina, Egypt | 2024 – Present

- Train students in algorithms, data structures, and ICPC-style competitive programming.
- Lead weekly problem-solving sessions and prepare teams for regional contests.
- Provide one-on-one coaching to help students improve problem-solving techniques and contest performance.

Full-Stack Developer | Freelance

Remote | Ongoing

- Building a scalable freelancing platform using Node.js, Express.js, and MongoDB.
- Designed RESTful APIs with JWT authentication and role-based authorization.
- Applied modular architecture following SOLID principles for long-term maintainability.
- Integrated frontend and backend components ensuring seamless user experience across the platform.

PROJECTS

Cursus | AI-Powered Academic Advisor & Planner

Collaborative Project

- Executed backend development and software engineering tasks to build academic management and student progress tools for cursus.runasp.net (GitHub: 3bdo-Yahya/Cursus).
- Conducted rigorous quality assurance testing to guarantee platform stability and optimize the user experience.

StudentHubEG | All-in-One University Platform

Collaborative Project

- Collaborated with a team to architect and deploy a centralized web platform designed specifically to serve the needs of university students.

Custom Accounting & Inventory System | Node.js, Electron.js, MongoDB

Dec 2024

- Developed a customized, cross-platform accounting software project for Ahmed Badawi Sanitary Wares Showroom to handle inventory tracking and invoicing.
- Implemented real-time database synchronization and local storage integration via Electron.js, enabling non-technical users to manage stock and generate financial reports.

TRAINING

SQL Server Development | Information Technology Institute (ITI)

Egypt | 2026

- Mastered relational database design, normalization, and T-SQL programming techniques.
- Optimized complex queries and stored procedures for high-performance database operations.

Back-End Node.js Track (180 Hours) | Creativa Innovation Hubs

Egypt | Jan – Mar 2025

- Completed intensive backend training covering Node.js, Express.js, REST API design, and MongoDB.
- Studied authentication strategies, middleware patterns, and backend security best practices.

ACHIEVEMENTS

- 3x Finalist in the Egyptian Collegiate Programming Contest (ECPC), competing among Egypt's top university teams.
- Registered multi-person team leader for the DAR Champions League competitive programming tournament on Codeforces.
- Solved 1,000+ problems on Codeforces, LeetCode, and other competitive programming platforms.

EDUCATION

B.Sc. in Computer Science | South Valley National University

Qena, Egypt | Expected 2027