Ahmed Emad Abdulraheem

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Profile

I am a Computer Engineering student, interested in software engineering, computer science and Back-end development.

Education

2022 – present Mansoura, Egypt	**Faculty of Engineering, Mansoura University** • **Major**: Computers and control systems (Currently in 3rd Year) • **Overall Grade**: Excellent • **Key coursework**: Data structures and Algorithms, Database Systems, Operating Systems, Artificial Intelligence, Machine learning, Networking.

Projects

Online Shop ⬈

e-commerce project web application with shopping cart and order management using nodejs.
Applied Design Patterns mainly 'MVC' archietecture.
Built a database to save, access and update user data using non-relational Dbms : Mongodb (Mongoose).
session-based authentication and data validation and error handling.

Car Agency Database ⬈

Designed and implemented a structured **SQL-based** database for a car agency with Data Migration (CSV Processing).
Created an ER Diagram and implemented a relational database schema to model car inventory, clients, payments, and branches.
Wrote complex SQL queries to facilitate sales processing.

Skills

Programming Languages:

c/c++, javascript, typescript

Databases:
• Database Fundamentals
• Database design
• Relational DBMS: SQL server
• Non-Relational DBMS: MongoDB

Soft Skills:

Time Management, TeamWork, Hard Working,
Adaptability and flexibility

Back-End:
• Nodejs
• Express js
• server-side validation (Zod, express-validator)
• authentication & authorization

Computer Science and Concepts:
• Data Structures and Algorithms
• Problem-Solving
• Operating System
• Creational Design Patterns
• OOP
• Version Control(Git); GitHub

Achievements

One of the top 22% Team out of 450 Teams in The **ECPC** Qualification 2024
solved +**500** problems on various online judging websites
Used to train an AI model to solve complex programming problems (Acade Studio)

Organisations

present	**IEEE Mansoura, Computer Society Chapter** *supervisor*