SHERIF ELMOHAMADY MESBAH

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SUMMARY

Computer Science student with a strong foundation in software engineering, including data structures, algorithms, operating systems, networking, and databases. Practical experience includes backend development using ASP.NET Core, along with a deep passion for competitive programming

EDUCATION

Tanta University
Bachelor of Computer Science   *December 2022 - August 2026*
GPA : 3.5/4.0

EXPERIENCE

Competitive Programming Instructor at ICPC Tanta   *March 2023 - Present*
- Volunteering to help other students improve their problem solving skills and learn different algorithms and data structures used in competitive programming by giving online sessions and creating contests

PROJECTS

Smart Label
- Created (in a team of 7) to develop digital price tags that update instantly via a central system
- Worked on the backend API using ASP.NET Core. Applied Clean Architecture to enforce strict separation of concerns (domain, application, infrastructure, presentation layers)
- Optimized database performance by implementing the CQRS pattern using the Entity Framework Core for writes (maintainability) and Dapper for reads (high-speed queries)
- Implemented SOLID principles alongside design patterns like Repository (data access abstraction), Unit of Work (transaction management), and Dependency Injection (loose coupling) to architect a maintainable, testable, and scalable solution
- Optimized stored procedures for efficient server-side pagination, boosting performance and reducing data load
- Secured the API with JWT-based authentication, ensuring role-based access control

HTTP Server
- Developed a concurrent HTTP server in C#, handling multiple client connections efficiently using async I/O
- Serving GET requests with proper status code responses (e.g., 200 OK, 404 Not Found, 500 Internal Server Error)
- Applied SOLID principles, using the Single Responsibility Pattern to separate HTTP Listener, request Handling, routing, and response generation for clean, maintainable code
- Applied the Factory Pattern to dynamically instantiate request handlers, improving code scalability and modularity

ACHIEVEMENTS
- Solved 2200+ algorithmic problems in C++ on various competitive programming platforms
- Ranked 24th out of 233+ teams in ECPC (Egyptian Collegiate Programming   *August 2023* Contest) qualifications
- Qualified for ECPC Finals after ranking 50th out of 250+ teams in qualifications   *July 2024*
- Top 100 out of 450+ teams in ACM National Contest ECPC   *August 2024*
- Ranked 7th out of 40+ teams in the Game of Coders contest at Mansoura   *July 2024*

SKILLS

Programming Languages : C#, C/C++, Python, SQL
Technologies : ASP.NET Core, RESTful API, ORM(Entity Framework Core, Dapper), SignalR, Git, GitHub, ADO.NET
SQl Databases : MySQL, SQL Server, Database Internals
Architectural Patterns : Clean Architecture, Vertical Slice Architecture, Object-Oriented Programming (OOP), SOLID Principles, and Design Patterns.
Soft Skills : Problem Solving, Competitive Programming, Team Work, Fast Typing