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Profile

I am an experienced software developer with strong fundamentals, having solved over 500 problems on LeetCode and Codeforces and built 30+ projects using .NET Core, Node.js, C++, and so much more. I work well in teams, design systems and databases, and develop secure, scalable backend systems. I quickly learn new technologies, have hands-on experience with cloud services like AWS and Cloudinary, and share my expertise on my YouTube channel, all with C2-level English proficiency.

Projects

Q/A Service APIs (ASP.NET Core Web API, SQL server) ⬈
This project gives teachers a simple way to post question collections and related content for students to practice and improve their skills. It features a ranking system to highlight dedicated learners, making it easy for students to find, organize, and solve questions at any education level.
This project is built with a complex architecture using various design patterns and a 4-tier structure powered by ASP.NET Web APIs. I collaborated with two friends on the backend, using AWS for hosting, and we're currently developing a mobile app to further extend its capabilities (My responsibilities included project management, system and database design, and contributing to secure, scalable code and SOLID-based architecture.).

Swift Trips (ASP.NET Core Web API, SQL server) ⬈
A hotel booking system.
Swift Trips is a comprehensive platform designed to streamline the booking of services such as hotels, flights, cars, and more. The system integrates three core components:

- **Booking Engine**: Facilitates the booking process for various services.
- **Channel Manager**: Manages and synchronizes bookings across multiple platforms.
- **Hotel Management System (HMS)**: Emulates hotel booking processes to streamline operations.

Products Service (JS project) ⬈
Made in Deno (a JavaScript runtime environment)
This product management system provides robust APIs featuring simple CRUD operations, allowing you to easily create, read, update, and delete product data.

Date Base Layer Code Generator ⬈
Made in .NET C# (Source code is in my Github profile)
This code generator significantly accelerates project development by automatically generating repetitive .NET data layer code needed for database connectivity. It has helped countless developers, including myself, streamline their workflow and build projects 50% faster than usual, making development more efficient and scalable.

Tool to Test REST APIs ⬈
Works like Postman and Insomnia (Source code is in my Github profile).
In just one day, I built a powerful tool for testing REST APIs, which I and other developers have used to streamline backend testing. This tool has been invaluable in ensuring the reliability and efficiency of my backend projects.

Driving License Management System ⬈
(SQL Server, .NET)
This application is designed for institutions that issue driving licenses. It helps them organize driver, license, and application data, and facilitates the issuance of licenses through an intuitive and appealing user interface.

E-commerce Application ⧉
(*SQL Server, .NET*)
This project involved developing a feature-rich e-commerce desktop application with a complex 3-tier architecture. With over 10,000 lines of code, it was a challenging build that took a month to complete, ensuring a robust and scalable solution for e-commerce needs.

A Media Player
(*SQL Server, .NET Core*)
I developed the core functionality of a media player app, allowing users to upload songs, listen to them, and organize them into playlists, similar to how Spotify work.

Games
I have developed several engaging projects, including mind-challenging puzzle and number games, a 2D shooter game, and a math game to enhance mathematical skills. Additionally, I created an atom simulation using C++ and SFML, as well as a space shooter game. These projects are available on my GitHub, with some showcased on YouTube.

Skills

Programming Languages
C++, C#, TypeScript, JavaScript

Database & Data Management
SQL, SQL Server, MySQL, Entity Framework, T-SQL

Cloud and VCS
AWS, Cloudinary, GIT

Backend, Desktop and Games Development
ASP.NET Core Web API, WinForms, .NET Core, Node.js, SFML, Deno, REST APIs, JSON, XML

Design Principles & Patterns
OOP, OOD, SOLID, Design Patterns

Professional Skills
Team player with technical competence and a positive attitude, Self-motivated and capable of working independently and as a part of a team, Teamwork, problem-solving sessions, clean & scalable code, debugging, documentation, quick learner.

Languages

English
C2, I have experience working as a real estate agent in the USA.

Arabic
My first language.

Education

Damanhour University, Damanhour, Egypt ⧉
Third Year Student

Teaching

I was part of a team that conducted problem-solving sessions to teach peers data structures, algorithms, and memory management. I was responsible for teaching topics such as memory management and data structures like Stack, linked lists and trees.