Maged Tarek *Junior Net Core Developer*

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○ GitHub   in LinkedIn

PROFILE

Junior .NET backend developer with hands-on experience in building web applications using C# and AST.NET Core. Proficient in database management with SQL and Entity Framework, API development, and backend optimization. Focused on writing clean, maintainable code and continuously improving performance and reliability. Motivated to collaborate with development teams and tackle challenging technical problems.

PROFESSIONAL EXPERIENCE

Full Stack Web Development Using .NET,   07/2025 – present | Cairo, Egypt
Information Technology Institute (ITI)

A hands-on training program that focuses on Microsoft .NET technologies and backend development. The program provides a solid foundation in computer science fundamentals and advanced skills in designing, developing, and deploying full-stack web applications. the program gives me the opportunity to collaborate in end-to-end software projects simulating real-world enterprise applications leveraging clean code principles, design patterns, solid design principles, and more.

.NET Backend Developer, *Advac Systems Ltd.*   01/2025 – 05/2025 | Cairo, Egypt

- Developed and maintained ERP systems and custom solutions using ASP.NET Core MVC, achieving significant enhancements in system performance and user satisfaction.
- Optimized SQL Server database management to strengthen system architecture and ensure data integrity.

PROJECTS

E-Commerce Microservices ⬈   01/2025

E-Commerce Microservices Development Using ASP.NET ⬈ **Core** Designed, implemented, and maintained key backend services for e-commerce web services, improving system reliability and scalability:

- **API Gateway:** Configured a centralized entry point, optimizing request routing, appling rate limiting and enhancing security.
- **Products Service:** A RESTful API for product management, enabling seamless CRUD operations with Entity Framework Core and SQL Server, reducing query execution using caching from Ocelot library.
- **Orders Service:** An order processing system with real-time tracking and status updates, ensuring smooth order management and enhancing the user experience.
- **Security Handling:** Designed and integrated JWT-based authentication with role-based authorization to safeguard APIs and ensure proper access control.

Finance System ⬈   02/2025

Designed and developed a finance management system using the following techniques:

- **Repository Pattern:** Used the Repository and Unit of Work patterns to keep the API layer independent from the database, making the system more flexible and easier to extend.
- **Code-First Development:** Defined and managed the database schema using Entity Framework Core, allowing seamless migrations and version control.
- **Authentication and Authorization:** Secured sensitive financial data with JWT-based authentication and role-based access control.
- **Data Transfer Objects:** Separated API models from database entities to enhance security and maintain a structured response format.
- **Extension Methods:** Created reusable C# extension methods to streamline model conversions between domain entities and DTOs.

Database System ⬀   07/2023

implemented a system for managing students in an art school, focusing on efficient data handling and user-friendly visualization:
- **Data Processing:** Utilized Pandas and NumPy to clean, structure, and process student records and fine details.
- **Interactive Dashboard:** Built a Streamlit-based web interface, allowing users to explore and filter student data with ease.
- **Navigation & UI:** Integrated a structured navigation menu for smooth access to different sections of the dashboard.
- **Database Management:** Ensured efficient storage and retrieval of student records and fine details for accurate tracking and updates.

SKILLS

- ASP.NET Core MVC
- Database Design
- SQL Server
- SOLID Design Principles
- C++
- Git

- ASP.NET Core Web API
- C#
- Language Integrated Query (LINQ)
- OOP
- Clean Architecture
- AJAX

- EF-Core
- JavaScript
- Repository | Unit of Work Pattern
- Data Structures & Algorithms
- ASP.NET Core Identity
- JQuery

EDUCATION

Bachelor's Degree | Computer Science, *Tanta University*   07/2020 – 07/2024 | Tanta, Egypt

LANGUAGES

English   Arabic