

Mohamed Ragheb Omer

ASP.NET Core Backend Developer

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PROFESSIONAL SUMMARY

Motivated **ASP.NET Core Backend Developer** with hands-on experience building scalable and maintainable backend systems using **Clean Architecture, RESTful API design, SQL Server, C#, EF Core, and ADO.NET**. Skilled in **JWT authentication and authorization, SOLID principles**, and common design patterns. Currently seeking a **Junior .NET Developer** role to contribute to real-world backend solutions and continue growing within a professional engineering team.

TECHNICAL SKILLS

Languages: C#, T-SQL, C++

Frameworks & Libraries: ASP.NET Core Web API, Entity Framework Core (EF Core), ADO.NET, .NET Framework 4.8

Architecture & Design: Clean Architecture, Repository Pattern, Unit of Work (UoW), Dependency Injection (DI), Middleware Pipeline, SOLID Principles

API & Security: RESTful API Design, Swagger / OpenAPI, Postman, JWT Authentication, Role-Based Authorization, Resource-Based Authorization

Testing: Unit Testing, xUnit, Moq, FluentAssertions

Databases & Caching: SQL Server, SQLite, Stored Procedures, Transactions, Triggers, Database Design, Indexing

Desktop Development: WinForms

DevOps & Tools: Git, GitHub, Visual Studio, Serilog

Soft Skills: Problem Solving, Analytical Thinking, Self-Directed Learning, Attention to Detail, Team Collaboration, Continuous Learning

PROFESSIONAL EXPERIENCE

Freelance ASP.NET Core Backend Developer

Jul 2026 – Present

- Developed and delivered a custom **Dental Clinic Management System** for a real client using **ASP.NET Core, C#, Entity Framework Core, SQLite, and WinForms**.
- Applied **Clean Architecture, Domain-Driven Design (DDD)**, and the **Repository Pattern** to build a scalable, maintainable backend.
- Designed the database schema, implemented core business modules, and managed **EF Core** migrations for reliable data persistence.
- Collaborated directly with the client to gather requirements, deliver the solution, and provide post-deployment enhancements and bug fixes.

CORE COMPETENCIES

- RESTful API Development
- Clean Architecture & DDD
- Entity Framework Core & SQL Server
- Authentication & Authorization (JWT)
- Database Design & Performance Optimization

SELECTED PROJECTS

Dental Clinic Management System

Jul 2026 – Aug 2026 | Demo: youtube.com/watch?v=ObpU8mq26vk

Tech Stack: C# · ASP.NET Core · Clean Architecture · DDD · Repository Pattern · SQLite · Entity Framework Core · Serilog

A comprehensive dental clinic management system developed to streamline daily clinic operations. The application manages patients, appointments, visits, treatments, prescriptions, payments, and radiographs through an intuitive desktop interface.

- Architected and implemented a scalable backend architecture using **Clean Architecture**, **Domain-Driven Design (DDD)**, and the **Repository Pattern** to ensure maintainability and separation of concerns.
- Built and integrated end-to-end business workflows, including patient records, appointments, treatments, billing, prescriptions, and radiograph management, backed by a relational **SQLite** database with **10+ interconnected tables** using **Entity Framework Core**.
- Collaborated directly with the client throughout the development lifecycle, translating business requirements into production-ready features and delivering a reliable solution for daily clinical operations.

SMS — Supermarket Management System

Feb 2026 – May 2026 | github.com/MohamedRaghebOmer/SMS-Supermarket-Management-System

Tech Stack: ASP.NET Core Web API · Clean Architecture · JWT Authentication · ADO.NET · SQL Server

A **RESTful** supermarket management system built using **ASP.NET Core Web API** and **Clean Architecture**, featuring secure **authentication and authorization**, optimized data access, and a scalable architecture for managing core supermarket operations.

- Designed and implemented a layered **RESTful Web API** using **ASP.NET Core** and **Clean Architecture**, ensuring scalability, maintainability, and separation of concerns.
- Implemented **JWT Authentication**, **resource-based authorization**, and a high-performance data access layer using **ADO.NET** and **SQL Server**, supporting **3+ user roles**, **20+ relational tables**, and **140+ stored procedures**.
- Built a centralized request processing pipeline with **3+ custom ASP.NET Core middleware** components for **exception handling**, **audit logging**, **correlation ID tracking**, and request processing.

DVLD — Driving & Vehicle License Department

Dec 2025 – Feb 2026 | github.com/MohamedRaghebOmer/DVLD-Driving-Vehicle-License-Department

Tech Stack: WinForms · C# · .NET Framework 4.8 · SQL Server

A desktop Driving & Vehicle License Department management system developed to automate the complete license issuance lifecycle, including applicant registration, testing, license management, and financial transaction tracking.

- Designed and implemented a relational **SQL Server database** with **14 interconnected tables**, supporting applicants, licenses, tests, applications, and financial transactions while maintaining data integrity.
- Developed a **multi-stage licensing** workflow that enforced **sequential vision, theory, and practical tests**, with eligibility validation and business rules preventing invalid or duplicate applications.
- Built **end-to-end license lifecycle management**, including **issuance**, **renewal**, **reissuance**, and **payment tracking**, providing complete auditability of applications and financial records.

CERTIFICATIONS

- ASP.NET Core Web API — Programming Advices (Certificate of Completion)
- Entity Framework Core — Programming Advices (Certificate of Completion)
- SQL Server & T-SQL — Programming Advices (Certificate of Completion)

Additional Professional Development: **Completed the comprehensive Programming Advices roadmap (29+ courses), covering programming foundations, algorithms, object-oriented programming, C++, C#, .NET, SQL Server, Git, GitHub, and backend development.**

EDUCATION

Bachelor of Science in Computer Science — East Port Said National University | East Port Said, Egypt

Oct 2025 – Oct 2029 (Expected) | Current **GPA: 2.98 / 4.00**