

Ahmed Mahmoud Mohammed

Junior .NET Developer

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Summary

A highly motivated software developer with strong problem-solving skills and a passion for building clean, efficient, and user-focused applications. Experienced in both back-end and front-end development. Committed to continuous learning and delivering high-quality code in collaborative environments.

EDUCATION

El Shorouk Academy | 2023–2026

Bachelor's Degree in Computer Science

Expected graduation: 2026

Root Academy | Oct 2024 – Jun 2025

.NET Development Certificate

Completed a comprehensive training program in .NET technologies

CERTIFICATES

.NET Development | 2025

Root Academy

Problem Solving (Basic) Certificate | 2025

HackerRank

PROJECTS

E-Commerce Web API

[GitHub](#)

ASP.NET Core | Entity Framework Core | Clean Architecture | Redis | JWT Authentication

- Applied Clean Architecture principles with layered separation of concerns
- Built full CRUD operations for products, orders, and baskets with advanced features like filtering, search, pagination, and sorting.
- Integrated Redis for basket management and JWT with Identity for authentication and authorization.
- Implemented Unit of Work, Generic Repository, and Specification Pattern to support complex queries and maintain clean data access logic.
- Used Swagger for interactive API documentation and global error handling for robustness.

Online Courses Marketplace

[GitHub](#)

ASP.NET Core 8 MVC | PostgreSQL | Entity Framework Core | Redis | SignalR | Paymob | Cloudinary | Onion Clean Architecture

- Designed and developed a full-stack online education platform enabling students to browse, purchase, and access video-based courses, while instructors manage their content and track earnings
- Integrated Paymob for online payments, and HLS streaming for protected course videos.
- Implemented role-based access, real-time SignalR chat, and clean architecture across service and data layers.
- Video Streaming: Protected HLS streaming for course videos; uploaded via Cloudinary

Car Scan AI — Intelligent Vehicle Damage Detection System

[GitHub](#)

ASP.NET Core Web API | Entity Framework Core | SQL Server | JWT | Clean Architecture

- Developed an AI-powered vehicle damage analysis system that allows users to upload car images, detect damaged parts, estimate repair costs, and evaluate damage severity.
- Built a repair center recommendation module that suggests suitable service centers based on vehicle brand and detected damage.
- Implemented secure JWT authentication, user-specific vehicle management, dynamic image handling, and clean RESTful API architecture.
- Designed a scalable backend structure to support future integration with real AI models such as YOLO or TensorFlow.

Gym Management System

[GitHub](#)

Windows Forms (.NET Framework) | SQL Server

- Developed a desktop-based gym management system focused on managing member subscriptions, attendance tracking, and payment logging.
- Implemented real-time CRUD operations with automatic detection of subscription expiration and support for installment-based payments.

Personal Portfolio Website

[GitHub](#)

HTML | CSS | JavaScript | Bootstrap | EmailJS

- Designed and built a fully responsive personal portfolio website to showcase projects, technical skills, and a downloadable CV, with a clean and minimalist user interface.
- Implemented a dynamic project slider, embedded resume section, and a contact form powered by EmailJS for direct email communication—optimized for both desktop and mobile devices.

SKILLS

- Programming Languages: C#, JavaScript, SQL
- Web Technologies: HTML, CSS, Bootstrap, Razor Pages
- Frameworks & Technologies: ASP.NET Core MVC, ASP.NET Web API, Entity Framework, SignalR, Redis, Windows Forms (WinForms)
- Design & Architecture: SOLID Principles, Design Patterns, Clean Architecture, Unit of Work
- Authentication: ASP.NET Identity, JWT Authentication
- Tools & Version Control: Git, GitHub, Visual Studio, Visual Studio Code, Postman, Adobe Illustrator, Swagger