

Mohamed Hassan

Backend .NET Developer

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mohamedhassan2004.github.io/My-Portfolio | **Military Status:** Exempted

SUMMARY

Junior Backend .NET Developer with practical experience building scalable APIs and real-time systems using ASP.NET Core and Clean Architecture. Strong problem-solving background demonstrated by solving **300+ DSA** problems across LeetCode and Codeforces.

EDUCATION

B.Sc., Computer Science and Artificial Intelligence 2022 - Expected June 2026

Helwan University, Cairo, Egypt | GPA: 3.48/4.0

Relevant Coursework: Data Structures & Algorithms, Operating Systems, Database Systems, OOP, Software Engineering

EXPERIENCE

Backend .NET Development Trainee Nov 2024 – May 2025

Digital Egypt Pioneers Initiative (DEPI)

- Developed scalable backend features using C#, ASP.NET Core MVC, and RESTful APIs within a team-based development environment.
- Implemented authentication and role-based authorization using ASP.NET Core Identity and JWT tokens.
- Applied SOLID principles and layered (N-Tier) architecture to improve maintainability and separation of concerns.
- Designed database schemas and optimized queries using Entity Framework Core.

PROJECTS

Socialify — Social Media Platform (ASP.NET Core MVC, Clean Architecture, C#, SQL Server, SignalR, MediatR, Serilog, Mapperly) github.com/MohamedHassan2004/Socialify

- Architected a social media platform with 20+ features (posts, comments, reactions, friend system) using Clean Architecture and supporting concurrent real-time interactions via SignalR
- Improved object mapping performance by ~30% by replacing reflection-based mapping with Mapperly (compile-time mapping)
- Implemented global exception handling and structured logging with Serilog, plus custom pagination and filtering for large datasets
- Secured all endpoints using ASP.NET Identity with full authentication and authorization workflows

Marketplace — Multi-Role E-Commerce Backend (ASP.NET Core Web API, N-Tier Architecture, EF Core, SQL Server, JWT, WebSockets) github.com/MohamedHassan2004/Marketplace

- Built multi-role marketplace REST API with 12+ endpoints covering product listing, cart, and order workflows for vendors and customers
- Added real-time notifications via WebSockets for order updates and system events
- Applied Repository and Unit of Work patterns within N-Tier architecture, cutting data access duplication and simplifying ORM swapping

SKILLS

- **Backend & APIs:** C#, .NET Core, ASP.NET Web API, ASP.NET Core MVC
- **Architecture & Design:** Clean Architecture, N-Tier Architecture, Repository Pattern, Unit of Work, SOLID Principles, OOP
- **Databases:** SQL Server, PostgreSQL, Entity Framework Core, Database Design
- **Security & Real-Time:** JWT & Refresh Tokens, ASP.NET Identity, SignalR, WebSockets
- **Frontend (Working Knowledge):** Angular, TypeScript, Tailwind CSS, Bootstrap
- **Tools:** Git, GitHub, REST API Design, Unit Testing (xUnit)
- **Competitive Programming:** 300+ problems solved on LeetCode, Codeforces, Codewars | Patterns: two pointers, sliding window, DP, recursion | leetcode.com/u/Logan99x

CERTIFICATIONS

- Full Stack .NET Development – DEPI – May 2025
- McKinsey Forward Program – McKinsey & Company – Jul 2025