

Abdelrahman Zagloul

Software Engineer | .NET Developer

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Portfolio: A-Zagloul.github.io/Portfolio/ | LinkedIn: linkedin.com/in/A-Zagloul | GitHub: github.com/A-Zagloul

Summary

Software Engineer and .NET Specialist focused on building scalable, maintainable applications. Skilled in problem-solving, research, and teamwork, with a strong focus on modern software engineering practices and continuous learning.

Technical Skills

Backend: [C#, OOP, ASP.NET Core, .NET MVC, .NET Web API, SignalR]

Databases and ORM: [SQL Server, LINQ, Entity Framework Core, Dapper, Redis]

Architecture & Patterns:[Clean, Onion & N-Tier Architectures | CQRS, Repository & Unit Of Work Patterns]

Core Concepts: [Problem Solving, Data Structure, Algorithms, SOLID, Design Patterns]

Testing and Quality : [Unit Testing, xUnit]

DevOps and Deployment: [Git, GitHub, Docker basics]

Frontend Technologies: [HTML5, CSS3, Bootstrap, JavaScript]

Internships

.NET Developer Intern at Route

May 2025 - Oct 2025

Built scalable .NET APIs and enhanced performance using LINQ, middleware, and Dependency Injection. Managed databases and strengthened application security and efficiency in API projects. Boosted API response time by optimizing LINQ queries, reduced database query load through caching, delivered features that decreased request error rate during internal testing.

Front End Intern at ITI

July 2024 – Aug 2024

Developed responsive web interfaces with HTML, CSS, JS, TS, Angular, and Bootstrap. Ensured usability and smooth user experience.

Education

Bachelor's Degree in Computer Science – **Sadat City University**

2022 - 2026

Cumulative GPA over years: **3.19 / 4**

Sadat City, Egypt

Projects

Online Examination System API – .NET 10

GitHub: [Repository](#) | Live Demo: [Demo](#) | Docker: [Image](#)

Built a production-ready ASP.NET Core Web API using Clean Architecture and CQRS.

Containerized with Docker & Docker Compose and published a Docker image.

Implemented JWT & Refresh Token authentication, RBAC(Doctor, Student).

Developed asynchronous exam result processing with automated email notifications using Hangfire.

Improved performance using Redis caching with automatic cache invalidation.

Ensured quality with 317 unit tests (xUnit) and Swagger/OpenAPI documentation.

Applied Repository & Unit of Work, Result pattern, API versioning, rate limiting, pagination, custom health checks, and standardized API responses, AutoMapper, FleuntValidation

E-Learning Platform API – .NET 8

GitHub: [Repository](#) | Live Demo: [Demo](#)

Developed a modular backend API using ASP.NET Core 8 with Clean Architecture.

Implemented JWT & Refresh Token authentication, role-based access, 2FA, and Google login.

Applied Repository & Unit of Work & Result & Options Pattern, FluentValidation, AutoMapper

Built features for courses, exams, videos, notifications, ratings, and user management.

Managed file uploads, background jobs, and email/SMS notifications.

Library Management System API – .NET 8

GitHub: [Repository](#) | Live Demo: [Demo](#)

Built a modular ASP.NET Core 8 backend with Clean Architecture & CQRS.

Implemented JWT/refresh token auth, role-based access, and secure account management.

Applied design patterns (Repository, Unit of Work, Result, Options), FluentValidation, AutoMapper, Hangfire, caching, rate limiting, Serilog, Custom middleware, and email notifications.

Developed features for books, authors, categories, borrow records, and notifications with CRUD, search, pagination, and file uploads.

Real-Time Chat App – ASP.NET MVC & SignalR

GitHub: [Repository](#) | Live Demo: [Demo](#)

Developed a real-time chat app using SignalR and ASP.NET Core MVC 9 for instant private and group messaging. Implemented authentication with ASP.NET Identity, live message and group updates, and full CRUD for group management. Designed a responsive, modern UI with Bootstrap 5 and integrated SweetAlert2 for user actions.

E-Commerce – ASP.NET Core MVC

GitHub: [Repository](#) | Live Demo: [Demo](#)

Developed a full-featured e-commerce platform with ASP.NET Core MVC, N-Tier Architecture

Enabled 100% secure online payments via Stripe integration.

Implemented authentication, role-based access, external logins (Google, GitHub, Facebook, LinkedIn, Microsoft).

Built products, categories, shopping cart, orders, and admin dashboard with CRUD, search, pagination, and email notifications.

Applied Repository & Unit of Work patterns, dependency injection, and clean code practices.