

Ahmed Ashraf El-Sayed

.NET Backend Developer

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Portfolio | LinkedIn | GitHub

Professional Summary

Results-driven .NET Backend Developer specializing in building scalable and secure RESTful APIs using ASP.NET Core. Strong expertise in Clean Architecture, CQRS, microservices, and Entity Framework Core with solid experience in SQL Server. Experienced in authentication and authorization (JWT), payment integration, and event-driven systems. Skilled in Docker-based deployments, CI/CD automation, and Microsoft Azure. Committed to writing clean, maintainable, and high-performance code with a focus on reliability and best engineering practices.

Technical Skills

Backend Development: C#, ASP.NET Core, ASP.NET MVC, RESTful APIs, Background Services

Architecture & Patterns: Clean Architecture, CQRS (MediatR), Unit of Work, FluentValidation, Outbox Pattern

Database: SQL Server, T-SQL, Stored Procedures, Indexing, Transactions, Query Optimization, EF Core, LINQ

Messaging & Distributed Systems: Microservices Architecture, Event-Driven Architecture, RabbitMQ, MassTransit

Cloud & DevOps: Microsoft Azure (Fundamentals), Docker, GitHub Actions (CI/CD)

Performance: Caching, Pagination, Rate Limiting, Health Checks, Response Compression, Global Exception Handling

Security & Testing: JWT Authentication, ASP.NET Identity, AutoMapper, Unit Testing (xUnit, Moq), Integration Testing

Projects

Hotel Booking API

Backend Developer | May 2025 - Oct 2025

ASP.NET Core 8, SQL Server, Clean Architecture, CQRS (MediatR), AutoMapper, EF Core, JWT, Docker, GitHub Actions

- Designed and developed a modular booking system with 40+ RESTful endpoints across 6 core modules (hotels, rooms, offers, availability, bookings, reviews, payments) following Clean Architecture and CQRS principles.
- Implemented JWT authentication, role-based authorization, API versioning, and global exception handling, while enhancing performance using MediatR pipeline behaviors (FluentValidation, caching, Unit of Work), AutoMapper, rate limiting, logging (Serilog), Docker, and CI/CD.
- Integrated Stripe payments end-to-end with idempotent PaymentIntent creation and webhook processing to automatically synchronize booking and payment status.

Online Courses Platform – Notifications Microservice

Backend Developer | Nov 2025 - Feb 2026

ASP.NET Core (.NET 8), SQL Server, CQRS (MediatR), EF Core, Background jobs, RabbitMQ(MassTransit), Firebase Admin SDK, Outbox Pattern, Azure DevOps

- Built an event-driven Notifications Microservice using .NET, MassTransit, and RabbitMQ to consume domain events with retry policies and correlation IDs for scalable inter-service communication.
- Built a reliable async processing pipeline using the Outbox Pattern and background workers (batch size, polling interval) with retry and failure tracking mechanisms.
- Designed multi-channel notification delivery (In-App, Email, Push via Firebase) with user preference management and device registration support.
- Structured the service using Clean Architecture and CQRS, applying FluentValidation, Unit of Work, EF Core, and stored procedures for complex workflows.

E-Commerce Platform

Fullstack Developer | Aug 2024 - Apr 2025

ASP.NET Core MVC, EF Core, SQL Server, ASP.NET Identity, Javascript, Bootstrap, jQuery, Ajax

- Developed an end-to-end e-commerce system covering products, cart, checkout, and order management.
- Improved user experience using AJAX-based dynamic loading and partial page updates, reducing full-page reloads.
- Implemented secure authentication, query optimization, pagination, logging, Server-side validation.

Education

Tanta University

Bachelor of Computer Science and Information Technology

Tanta, Egypt

Sep 2023 - May 2027 (Expected)

Languages

Arabic: Native

English: Professional Working Proficiency