

Ahmed Ragab Ali

Software Engineer

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SUMMARY

Full-Stack .NET Engineer specializing in backend-first development with ASP.NET Core, Clean Architecture, and AI integration (RAG pipelines, vector embeddings, semantic search). Experienced building production-ready systems across Onion and Clean Architecture layers, designing CQRS pipelines, and integrating third-party services (Stripe, Twilio, OpenAI). Driven by delivering maintainable, scalable solutions that solve real business problems.

EDUCATION

Information Technology Institute (ITI)

Oct 2025 – Present

- 9-Month Professional Diploma (PTP) — Full Stack .NET Developer Track

B.Sc in Computer & Communication Engineering — Mansoura University

Oct 2020 – Dec 2025

- Faculty of Engineering, Mansoura University (MU) **GPA: 3.76 / 4.0**

PROJECTS

Otlob | .NET 10, Redis, Stripe, Twilio, Angular

🔗 Backend | 🔗 Frontend

- Engineered a full-stack e-commerce platform — Angular frontend consuming a 30+ endpoint REST API built across 4 Onion Architecture layers (Domain, Service, Infrastructure, Presentation).
- Implemented JWT authentication with refresh tokens, ASP.NET Core Identity, role-based authorization, and email confirmation; integrated Stripe Checkout with webhook-driven order status updates and post-payment notifications via SMTP and Twilio SMS — reducing manual order follow-up to zero.
- Applied Specification Pattern for dynamic product filtering, searching, sorting, and pagination; leveraged Redis for distributed basket storage and response caching, cutting repeated query latency by over 60%.

Document Q&A System (RAG) | ASP.NET Core, OpenAI Embeddings, MongoDB

🔗 GitHub

- Built a Retrieval-Augmented Generation (RAG) platform enabling natural-language question answering over uploaded documents, achieving sub-second semantic retrieval across 10k+ document chunks.
- Designed chunking, vector embedding, and semantic retrieval pipelines that ground AI responses in source documents, significantly improving answer relevance over prompt-only approaches.
- Developed a scalable ASP.NET Core backend with MongoDB for document processing and retrieval workflows, decoupling ingestion from query serving for independent scaling.

Akla | .NET 9, MediatR, CQRS, Clean Architecture

🔗 GitHub

- Architected a production-ready ASP.NET Core Web API across 4 Clean Architecture layers (API, Application, Domain, Infrastructure), exposing 20+ endpoints for restaurant, dish, order, and user management.
- Engineered a CQRS pipeline using MediatR, FluentValidation, and AutoMapper — decoupling read/write paths and reducing controller logic by ~70%, making the codebase significantly easier to extend and test.
- Implemented role-based authorization (User, Admin, Owner, Driver) with custom policies, Serilog structured logging, and full Swagger/OpenAPI documentation across all endpoints.

Readfy | .NET 8, ASP.NET Core MVC, Stripe, Identity

🔗 GitHub

- Delivered a full-stack e-commerce MVC platform for browsing and purchasing books, featuring catalog search, pagination, and tiered pricing across a layered architecture (MVC, Data Access, BL, Utility).
- Integrated Stripe Checkout (live payments), Google OAuth, and a session-based cart supporting 4 user roles (Admin, Customer, Company, Employee) — eliminating manual account creation for OAuth users and cutting checkout friction.
- Built a full Admin panel with CRUD for categories and products including image uploads; polished frontend using Bootstrap 5, DataTables, Toastr, SweetAlert, and TinyMCE.

SKILLS

Backend: C#, ASP.NET Core, Entity Framework Core, RESTful APIs, SignalR, LINQ, OpenAI API, RAG (Retrieval-Augmented Generation), Vector Embeddings, Semantic Search, Document Processing

Frontend: Angular, Standalone Components, Signals, NgRx, RxJS, TypeScript, JavaScript (ES6+), HTML5, CSS3, Bootstrap 5, Responsive Design

Database: SQL Server, Azure SQL, MongoDB

Architecture: Clean Architecture, Onion Architecture, SOLID Principles, OOP, CQRS, MediatR, Repository Pattern, Unit of Work

Cloud & DevOps: Azure, Azure DevOps, Docker, CI/CD, GitHub Actions

Tools: Git, GitHub, Postman, Visual Studio, VS Code, SSMS, Angular CLI, Power BI

Soft Skills: Problem Solving, Team Collaboration, Communication, Attention to Detail, Adaptability, Time Management.

TRAINING

DEPI — Digital Egypt Pioneers Initiative | Full-Stack .NET Intern *Mar 2025 – Sep 2025*

- Completed a 6-month government-sponsored internship focused on full-stack .NET development using ASP.NET Core MVC, Entity Framework Core, and JWT-based authentication.
- Built and deployed web applications applying Agile methodologies, RESTful API design, and layered architecture patterns across collaborative team projects.

EXTRACURRICULAR ACTIVITIES

CAT Reloaded Team | CS & HR Member *Nov 2022 – Jun 2025*

- Organized technical workshops and non-technical events for a 100+ member student community, strengthening team operations and engagement.

LANGUAGES

Arabic – Native English – Intermediate