

# Ahmed Mohamed Eltwab

.NET Backend Developer

Cairo, Egypt | +201500065985 | ahmedmtwab@gmail.com | <https://linkedin.com/in/ahmed-twab> | <https://github.com/AhmedMTwab>

**.NET Backend Developer** building production-grade APIs using **ASP.NET Core**, **Entity Framework Core**, and **SQL Server**. Delivers reliable backend solutions with consistent attention to system quality and data integrity

## EXPERIENCE

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**.NET Backend Developer – Egyptian Media Production City (EMPC)** - Cairo, Egypt, Oct 2025 – Present

Tech Stack: ASP.NET Core (.NET), EF Core, SQL Server, Clean Architecture, CQRS, MediatR, JWT, IIS

- Rebuilt a vendor-abandoned Visitor Management System from zero documentation, reverse-engineering business workflows through stakeholder interviews and database analysis to deliver 7 core modules
- Migrated and restructured a corrupted legacy database into a new schema with zero downtime, sustaining operations for 2,300+ employees, 700+ daily visitors, and 150+ tenant companies
- Established a Clean Architecture foundation with centralized exception handling, reducing onboarding friction for new team contributors

## PROJECTS

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**Purchase & Sales Analytics API – High-throughput bulk data ingestion and analytics API**

GitHub: <https://github.com/AhmedMTwab/Purchase-Sales-Analysis-Task>

Tech Stack: ASP.NET Core (.NET 8), EF Core, SQL Server, EFCore.BulkExtensions, CsvHelper, EPPlus

- Designed a bulk ingestion pipeline for Excel/CSV uploads with pre-write schema validation, preventing data corruption against live production datasets under tight deadlines
- Optimized the ingestion pipeline through streaming parsing, 20K-row batching, and SqlBulkCopy via EFCore.BulkExtensions – achieving 1M+ rows processed in 0.35 seconds
- Delivered analytics endpoints for profit reporting, top/bottom-performing product rankings, and parameterized product search

**Grocery Store Delivery Portal – Delivery Scheduling API with Dynamic Slot Generation**

GitHub: <https://github.com/AhmedMTwab/GroceryStoreTask>, API: <https://grocerystoretask.tryasp.net/swagger/index.html>

Tech Stack: ASP.NET Core (.NET 8), EF Core, SQL Server, CQRS, MediatR, xUnit

- Architected delivery business rules from scratch, encoding category-specific time windows, day restrictions, and capacity limits directly into domain logic for maintainability and testability
- Engineered an on-demand slot generation engine that computes availability per product category in real time, automatically filtering at-capacity slots without persisting redundant data
- Deployed a production-ready API with full Swagger documentation (grocerystoretask.tryasp.net) and comprehensive xUnit test coverage across the application layer

## SKILLS

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**Backend Development:** C#, ASP.NET Core (Web API, MVC), .NET, Entity Framework Core, LINQ

**Architecture & Design:** Clean Architecture, CQRS (MediatR), Dependency Injection, RESTful API Design, SOLID

**Databases:** SQL Server (Indexing, Query Optimization, Schema Design, Migrations)

**Testing & Quality:** Unit & Integration Testing (xUnit, Moq), Test-Driven Development (TDD)

**DevOps & Tools:** Docker, CI/CD, Azure Cloud, Git, Swagger/OpenAPI, IIS

## EDUCATION

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**B.Sc. Computer Engineering** – Modern Academy for Engineering, Cairo, Egypt

Graduated: August 2024

**Graduation Project:** Celiac Association Management System & E-Commerce API – Grade: Excellent

- Led a 2-application healthcare platform (admin system + member mobile app) covering inventory, appointment scheduling, insurance processing, and e-commerce with role-based access control