

# Ahmed Awad

Software Engineer | Backend .NET Developer

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## OBJECTIVE

High-achieving, results-driven .NET Backend Developer with comprehensive experience in ASP.NET Core and Entity Framework. Successfully designed and implemented a scalable Apartment Rental Management System utilizing RESTful API and Clean Architecture principles. Eager to leverage expertise in secure, maintainable backend systems to contribute to a collaborative development team.

## TECHNICAL SKILLS

### Programming Languages & Frameworks

C# (Advanced Concepts, Clean Coding Practices), .NET Core / .NET Framework, ASP.NET Web APIs (RESTful Services), ASP.NET MVC (Model-View-Controller).

### Software Design & Architectural Principles

SOLID Principles (Applied Knowledge), OOP (Encapsulation, Polymorphism, Abstraction), Dependency Injection (DI), Design Patterns (e.g., Repository Pattern, Unit of Work).

### Database & Data Access

Entity Framework (EF) Core (Code-First, Migrations), LINQ, SQL Server, Database Design.

### Development Tools & Practices

Git / Version Control (GitHub, Azure DevOps), Visual Studio / VS Code, Debugging, Problem Solving, HTML5, CSS3, JavaScript.

## PROJECTS

### Sakan: Apartment Rental Management System

10/2024 – 05/2025

- **Developed** a complete backend web application for managing apartments, tenants, and rental operations using **ASP.NET Core Web API** and **Entity Framework Core (Code First)**.
- **Designed** and **implemented** a modular architecture following **SOLID principles** and **Clean Architecture** for better maintainability and scalability.
- **Created RESTful APIs** to handle all core features, including apartment listings, user authentication, and advanced search & filtering operations.
- **Applied** robust data validation and exception handling, alongside the **Repository Pattern**, to ensure clean and reliable data integrity.
- **Optimized** database relationships and performance using **SQL Server** and efficient **Entity Framework LINQ queries**.
- **Secured** user access and role management (Admin / User) using **JWT-based authentication**.
- **Built** and **documented** the entire system independently as a graduation project, with a strong focus on backend quality and system reliability.

## E-Commerce Web API

08/2025 – 09/2025

- **Developed** a full-featured **E-commerce backend system** using **ASP.NET Core Web API** and **Entity Framework Core (Code First)**.
- **Implemented** core functionalities including **authentication** (via **JWT**), user roles, product management, shopping cart, orders, and an admin dashboard.
- **Applied** robust **RESTful API design** and **optimized** database performance with **SQL Server** for high-volume transactions.
- **Adhered** to **SOLID principles** and **clean architecture practices** to ensure highly maintainable, scalable, and testable code.
- **Managed** the entire project **independently**, focusing on modern backend development standards and documentation.

## EDUCATION

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### Bachelor of Computer and Control Systems Engineering

2020 – 2025 | Mansoura, Egypt

Faculty of Engineering, Mansoura University [🔗](#)  
General Grade: Excellent

## TRAINING & ACADEMIC HIGHLIGHTS

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### .NET Backend Development Summer Training – ITI, Mansoura Branch

06/2023 – 09/2023

Completed intensive backend training covering C#, ASP.NET Core, EF Core, MVC, and Web API. Built backend systems and applied Clean Architecture and SOLID principles in real projects, **focusing on unit testing and system design fundamentals**.

### AI & Data Science Professional Program – DEPI

04/2024 – 10/2024 | Mansoura

Gained practical experience in machine learning, deep learning, and data preprocessing using Python. Built and deployed AI models for real-world image classification applications.

## LANGUAGES

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Arabic – Native

English – Intermediate (B1)