Mohamed Samir Mohamed

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🐙 github.com/mohamedsamir1511 🛡 Completed

Summary

Results-driven **Backend .NET Developer** with experience in building scalable **RESTful APIs** using **C#**, **ASP.NET Core**, **Entity Framework Core**, and **SQL Server**. Skilled in applying **SOLID principles**, **Clean Architecture**, and the **Repository Pattern** to deliver efficient, maintainable backend solutions. Proven ability to work in **Agile teams**, practice **testable development**, and contribute to real-world production projects. Eager to grow within innovative and collaborative environments.

Education

Bachelor's Degree in Computer Science, Ain Shams University — Sep 2019 – Jul 2023, Cairo
- **GPA:** B-
- **Graduation Project:** *Arabic Fake News Detection Using Deep Learning* — **Grade: A- (Excellent)**

Professional Experience

EVA Pharma — Backend Development Intern (6 Weeks Intern) — Jul 2025 – Present, Haram

- Completed **3 weeks of intensive backend training** covering **C#, OOP, LINQ, Entity Framework (Code First), ASP.NET Core MVC, and Web API**.
- Developed a **real-world backend project (3 weeks)** using **ASP.NET Core Web API** and **Entity Framework**, applying **N-Tier Architecture**, **Generic Repository Pattern**, and **Specification Pattern**.
- Implemented **JWT Authentication & Authorization**, **SignalR for real-time notifications**, **DTOs**, **Custom Filters**, **Paging & Sorting**, and **Unit Testing**.
- Focused on **clean architecture** and **SOLID principles**, ensuring scalable and maintainable code.

Projects

Diabetes Helper – ASP.NET Core MVC Web App 🔗 — May 2025 – Present
Tech: ASP.NET Core MVC, EF Core (Code First), SQL Server, LINQ, Bootstrap, Chart.js, Agile
Built a full-featured web system to help diabetic patients monitor and track their blood glucose levels. Implemented secure user authentication and role-based access control for patients and doctors.
- Doctors can view patient data and trends through visual dashboards powered by Chart.js
- Applied Clean Architecture with DAL, BLL, and PL layers using the Repository Pattern
- Followed Agile methodology for sprint planning and iterative feature delivery
- Designed a fully responsive UI using Bootstrap to ensure cross-device compatibility

Pizza Restaurant Management System 🔗 — May 2025 – Jun 2025
Tech: C#, .NET 8, EF Core, SQL Server
Developed a console-based restaurant management system with full CRUD operations for managing orders, customers, and employees.
- Designed a relational database schema using EF Core (Code First)
- Implemented clean, modular architecture following OOP principles
- Applied SOLID principles to ensure maintainability and scalability

Puzzle Solver – C#, Console App 🔗
Tech: C#, A* Algorithm, Data Structures, Agile Console application that solves the N-Puzzle problem using the A* Search Algorithm. • Implemented A* algorithm to find the optimal path to solution • Used efficient data structures to enhance performance • Followed Agile practices with clean, modular code

Fake News Detector (Graduation Project) – Chrome Extension 🔗
Tech: Python, NLP, Deep Learning, Node.js Chrome extension for detecting fake news using deep learning and NLP. • Python for backend analysis • Node.js for extension interface • Grade: A- (Excellent)

Technical Skills

Languages & Technologies
- Languages & Frameworks: C#, ASP.NET Core MVC, RESTful APIs
- OOP & Principles: Object-Oriented Programming (OOP), SOLID Principles, Clean Code, Debugging
- Database Technologies: SQL Server, T-SQL, LINQ, Entity Framework Core (Code First & Database First)
- Database Features: Stored Procedures, Views, User-Defined Functions (UDFs), Relationships
- Architecture & Patterns: Layered Architecture, Repository Pattern, Dependency Injection
- Validation & Testing: Data Annotations, Remote Validation, Unit Testing
- State Management: Session, Cookies, TempData, ViewBag, ViewData
- Tools & Platforms: Visual Studio, SSMS, Git, GitHub, Postman, Docker, Microsoft Teams

Courses

Neural Networks and Deep Learning by Andrew Ng   Nov 2022 – Jan 2023

Artificial Intelligence – Information Technology Institute (ITI) Sep 2022 – 72 Hours .   Sep 2022 – Oct 2022
    Introduction to AI, Probability & Statistics for ML, Linear Algebra for Data Science, Numerical
    Optimization, Data Preparation & Exploration, Neural Networks & Deep Learning

Front End Web Development Course (EgFWD)   Apr 2021 – May 2021

Languages

Arabic: Native   •   **English:** Fluent