

# Mahmoud Zakaria

*Junior Full-Stack .NET Developer*

Giza, Egypt

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## Professional Summary

Motivated junior full-stack developer with a background in Mechatronics Engineering and hands-on ITI training in .NET and Angular. Experience building web apps, RESTful APIs and working with databases. Eager to contribute to team projects in a real-world development environment.

## Technical Skills

- **Languages:** C#, JavaScript, TypeScript, HTML5, CSS3
- **Frameworks:** .NET Core, ASP.NET MVC, Entity Framework, Angular
- **Databases:** SQL Server, MySQL, NoSQL
- **Concepts:** OOP, SOLID, REST APIs, Design Patterns
- **Tools:** Git, Visual Studio, Bootstrap
- **Embedded:** AVR, TIA Portal, Proteus, MATLAB
- **Protocols:** UART, I2C, SPI

## Projects

**PharmaLink** — Angular, ASP.NET Core, EF Core, SQL Server

Full-stack web platform connecting pharmacies to provide real-time medicine availability, detailed drug information, and AI-powered alternative suggestions. Includes e-commerce features such as product search, cart management, order tracking, and an admin dashboard for managing drugs, pharmacies, and users. Developed with a modular Angular frontend and a RESTful ASP.NET Core backend, following clean architecture principles.

**Trainees & Courses Management System** — ASP.NET Core MVC, EF Core, Identity

A full-featured MVC web application to manage trainees, tracks, and courses. Developed using Entity Framework Core (Code First), Repository Pattern, and custom service injection.

**NewsApp** — HTML5, CSS3, JavaScript

Personalized news portal allowing user authentication, interest management, and a tailored news feed using NewsAPI. Features include country-specific browsing, topic search, date filtering, and responsive UI. Utilizes localStorage for persistence.

**Books Finder API** — Bootstrap, ECMAScript

Book discovery platform with search, pagination, logging, ratings/reviews, and advanced filtering. Clean UI built with Bootstrap; implemented robust client-side logic using ECMAScript 6+.

## Education

**B.Eng. in Mechatronics, Fayoum University, Egypt**

*Graduated 2023, GPA: 3.4*

## Experience

**Full-Stack Developer Trainee (.NET & Angular)** — ITI, Egypt

*Mar 2024 – Present*

- Full-stack training using C#, ASP.NET Core, Entity Framework, Angular.
- Built RESTful APIs, applied MVC, developed dynamic frontends.
- Used Git and Agile practices; wrote clean, maintainable code.

## **Embedded Systems Projects**

*2021–2023*

- Self-Driving Car: AVR-based control, sensor integration, serial/I2C/SPI comms.
- Production Line Automation: PLC & HMI. Automated processes with TIA Portal.

## **Languages**

Arabic (Native), English (Conversational)