Mahmoud Rabea Ahmed

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Profile

Full Stack Developer with solid experience in building web applications. I have developed complete projects using Angular, ASP.NET Core MVC, and Web API, with data managed through Entity Framework and LINQ, and relational databases designed and maintained using SQL Server.

Education

- Bachelor's Degree in Computer Engineering, Faculty of Engineering,
  Helwan University - (Sep 2019 - Jul 2024)
- Grade: Excellent with honors | Rank: 5th
- Relevant Coursework: Data Structures, Algorithms, Database Management, Object- Oriented Programming
- Graduation Project: Empowering Wireless Diagnostic and Automatic Updates
  - Developed an autonomous car for testing vehicle diagnostics.
  - Built a web application to receive diagnostic data and send updates to vehicles via Raspberry Pi.
  - Project Grade: Excellent

Internship

- The Information Technology Institute (ITI) Full-Stack Web Development using .NET Intensive Training Scholarship (Mar 2025 - Aug 2025)

During this internship, I enhanced my skills in HTML, CSS, JavaScript, Typescript, Angular, C#, ASP.NET Core Web API, and SQL Server. I also worked on several hands-on front-end and back-end projects, in addition to participating in various non-technical courses.

Technical Skills

- **Front-end:** HTML, CSS, Bootstrap, JavaScript, Typescript, Angular
- **Back-end:** .Net Core, LINQ, Entity Framework, ASP.Net Core MVC, Web API, SignalR
- **Other Programming Languages:** C, C++, Java
- **Database Management:** SQL Server, MySQL, Firebase
- **Version Control:** Git, GitHub
- **Others:** Data Structure, Solid Principles, Unit Testing, Onion architecture, Postman, Swagger, Gen AI

Soft Skills

- Communication
- Teamwork
- Problem-solving
- Time Management
- Leadership
- Creativity

Projects

- **Angular Movie App**
  - This project is a responsive movie browsing web application built using Angular, integrating with The Movie Database (TMDb) API to fetch real-time movie data. Users can explore now-playing movies, view detailed movie information, manage a personalized wishlist, search for movies, and enjoy multilingual support with dynamic layout direction (LTR/RTL) based on the selected language.
  - GitHub: https://github.com/MahmoudRabea20/Movie-Application

- **E-Commerce Web Application**
  - This project is a full-featured e-commerce web application built using JavaScript. It supports two types of users: Admin and Customer. Admins can manage products and categories with full CRUD functionality, view all customer orders, and approve or reject order requests. Customers can register and log in, browse and filter products, manage a wishlist and shopping cart, place orders, and view their order history.
  - GitHub: https://github.com/MahmoudRabea20/E-Commerce

- **Digital Notes Manager – Windows Form Application**
  - The Digital Notes Manager is a Windows Forms application that allows users to create, edit, organize, and manage their personal notes efficiently. The system supports a multi-document interface (MDI) for handling multiple notes at once, a custom control for note categorization with custom event, and file dialogs for saving and loading notes.
  - GitHub: https://github.com/MahmoudRabea20/Digital-Notes-Manager

- **E-Learning Platform**
  - The proposed E-Learning System, developed using Angular 20 and ASP.NET Core, offers an interactive platform for both students and instructors. Instructors can create subjects and upload related content, while students can browse available subjects, enroll in their chosen courses, make payments, and access the course materials. The system also enables students to engage in peer-to-peer discussions and participate in live lectures. Additionally, an integrated AI-powered chatbot supports users by handling both general inquiries and database-specific searches, ensuring efficient assistance and guidance.
  - GitHub: https://github.com/MahmoudRabea20/E_Learning-Platform

- **Airline Reservation System**
  - The purpose of the airline reservation systems is to help with an assortment of flight management and client's issues from the hour of introductory reservation through the finish of the flight .The airline reservation system eases flight management and creates a convenient and easy-to-use application for passengers, trying to buy airline tickets. The system is based on a relational database with its flight management and reservation functions.
  - GitHub: https://github.com/MahmoudRabea20/FlightReservationSystem

Trainings

- **Egyptian Banking Institute (EBI) – (Aug 2024 – Sep 2024)**

  - Fundamentals of banking work in banks
  - Backend development
  - Database Management

Languages

- Arabic (Native)
- English (Conversional)