

Mohamed Hamdy

Junior Software Engineer

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Summary

Experienced in both backend development and cross-platform application development. Proficient in C#, ASP.NET Core, Web API, Entity Framework, and Dart with Flutter. Skilled in writing clean, scalable, and testable code for mission-critical applications, following SOLID principles and RESTful API architecture.

- **Backend Expertise:** Developed, designed, and maintained applications using the .NET framework, implemented database optimization strategies for SQL Server, and created efficient data access layers with LINQ and Entity Framework.
- **Flutter Expertise:** Designed and developed responsive, cross-platform applications with Flutter, ensuring robust performance and clean, maintainable codebases. Optimized applications for enhanced user experiences.

Education

Bachelor's degree in Computer Engineering

06/2025

Higher Institute of Engineering and Technology – Behira , Fully available to work full-time or part-time or even internship , ready to work immediately

Programming Advices

Skills

Programming Languages C# , C++ , Dart

Architectures 3-Tier Architecture

Frameworks & Libraries ASP.NET Core , Entity Framework , .NET Framework , LINQ , Flutter

Databases SQL Server , T-SQL

Design Patterns Repository Pattern

Principles SOLID Principles , Object-Oriented Programming (OOP)

Other RESTful API , Data Structures , Algorithms , Git , Github , HTML , CSS

Soft Skills Very Adaptability , Team Player , Good Communication , Problem-Solving , Troubleshooting , Time Management , Attention to Details , Continuous Learning, critical thinking, Collaboration, Teamwork, Commitment

Projects

Educational and Nourish App

10/2024 - present

The Educational and Nourish App is a comprehensive mobile application designed to promote education and student nutrition. It integrates features such as personalized learning resources, nutrition tracking, meal planning, and educational content tailored to support students' academic and nutritional well-being. The app aims to enhance student engagement, provide valuable resources, and foster healthier lifestyles through innovative technology solutions, developed about 70% of this application starting from choices screen till end.

Q-A-Services-API

2024

A C# Web API project leveraging a layered architecture to ensure scalability and maintainability.

- API Layer: Manages HTTP requests and handles functionalities such as email dispatching.
- Core Layer uses business logic and data access components for efficient data interaction.
- Delivers a suite of HTTP-accessible services, following best practices in modularity and reliable functionality.

SwiftTrips - API

2024

Built a scalable web application for online booking, modeled after Booking.com, utilizing multi-layered architecture.

- API Layer for request handling.
- Core Layer for business logic.
- Data Access Layer for efficient database interaction.
- Key features: advanced accommodation search, booking, and reservation management with a user-friendly interface.

DVLD (Driver License Management System)

2023

Built a robust system for managing Driver and Vehicle Licensing, focusing on scalability, data security, and user-friendly interactions.

- Business Logic Layer for core operations like driver, license, and application management.
- Data Access Layer for secure and efficient database handling.
- UI Layer (Windows Forms) for user-friendly interaction.
- Key features: optimized processes, centralized data management, and scalable design.

C# and Database Connectivity

2023

Created a system for managing contacts, providing streamlined data management and a scalable architecture for future growth.

- Business Logic Layer for contact creation, updates, deletion, and country-related data management.
- Data Access Layer for secure database operations.
- UI Layer (Console-Based) for intuitive user interaction.
- Key features: simplified contact management, database integration, and a scalable, maintainable architecture.

Languages

- Arabic
- English