Mahmoud ElHassan Mahmoud

📍 4290 Zuhair Ibn Muawiyah Jashmee St.   ✉ G-mail   📞 +9660504116526   🔗 Portfolio   in Linked-In   ⌂ GitHub

Personal Profile

An ITI Institute graduate student enrolled in the track full-stack web development ASP.Net and Angular JS. Dedicated to Back-end ASP.Net, having +4 year of expertise, and specializing in Back-end ASP.Net web developer, and algorithms. Searching mainly for Back-end, and Database.

Education

HS   **M.K.S Language School**   Graduated 2014
High School.

BS   **Faculty of Tourism and Hotels at Alexandria University**   2014 - 2017
Hotels Management Department.

Dip   **Information Technology Institute (ITI)**   November 2022
Diploma at track Full Stack web development ASP.Net and AngularJS.

Experience

Astro pvt Company

ASP.NET Backend Developer

Job Role: As an ASP.NET Developer at Astro Pvt Company, I specialise in developing and maintaining backend solutions using ASP.NET Core, SQL Server, and Entity Framework Core to ensure high performance and scalability for websites and Mobile Apps. I design and implement RESTful APIs for seamless client integration and handle extensive database management, optimising SQL Server, MongoDB, and Redis for efficient data storage and retrieval. In addition to backend responsibilities, I implement CI/CD pipelines in Azure App Server and deploy containerised applications with SQL Server databases, ensuring smooth, continuous delivery. On the front-end, I collaborate on projects using AngularJS, ReactJS, and TypeScript to build dynamic, responsive user interfaces.

Remotely
California, USA
April 2022 - January 2025
NumeriiSoft Website ↗

Digital Tamkeen (Digital Matrix)

ASP.NET Backend Developer

Job Role: As an ASP.NET Developer at Digital Tamkeen (Digital Matrix) Company, I specialist in developing and maintaining backend solutions using ASP.NET Core, Postgres Database, MongoDB, and Entity Framework Core to ensure high performance and scalability for websites and Mobile Apps. I design and implement RESTful APIs for seamless client integration and handle extensive database management, optimising Postgres Server, MongoDB, and Redis for efficient data storage and retrieval. In addition to backend responsibilities, deploy containerised applications with Postgres Server DB, ensuring smooth and continuous delivery. On the front-end, I collaborate on projects utilising and creating a Software Server by using SaaS with connecting with the Azure App Server.

Full-Time
Makkah, KSA
January 2025 - January 2026
Tamkeen Website ↗

Projects

NumeriiSoft Project   NumeriiSoft WebSite ⬀

- I built the entire backend a system that delivers personalized karmic/numerology insights and online astrology learning content. The backend was developed using ASP.NET Core Web API following a clean, layered architecture. I implemented Entity Framework Core with a SQL database, applying the Repository Pattern to keep data access modular and maintainable.
- A core part of the platform involved integrating multiple third-party astrology/numerology APIs to compute karmic profiles based on user inputs (name, birth date, birth details). The backend merges these calculations into unified JSON responses for the frontend.
- I also built the course management module, including endpoints for course catalogs, user enrollments, and personalized recommendations. Security was ensured through JWT authentication, strict validation, and standardized error handling. I documented the entire API using Swagger/OpenAPI to support client teams and testers.
- **Technical Used:** Entity Framework Core, SQL Server, JWT Authentication, validation & error handling.

Khzama Project (Charity E-Commerce Donation Platform)   Khzama WebSite Test ⬀

- Built the backend for a full donation marketplace used by charities, mosques, and community projects in Makkah using ASP.NET Core Web API and Clean Architecture.
- Implemented RESTful APIs for campaign management, donations, user authentication, reporting, and multi-tenant charity onboarding.
- Applied Clean Architecture principles—Domain, Application, Infrastructure, API—to ensure modularity, scalability, and testability.
- Developed donation workflows including carts, payment processing, transaction recording, and automated email receipts.
- Implemented multi-tenancy to allow multiple charities to use the same SaaS platform with isolated data.
- Deployed the entire platform on Azure App Service, configured CI/CD pipelines, and managed environment variables, scaling rules, and application configurations.
- Ensured secure authentication, token handling, and endpoint protection using JWT, role-based authorization, and Identity best practices.
- The solution is deployed as a SaaS product on Microsoft Azure, running on App Service with automatic scaling, environment configuration, and CI/CD pipelines via GitHub Actions/Azure Pipelines. Payment processing, donation tracking, and reporting are handled through secure, high-performance APIs.
- **Technical Used:** Built a multi-tenant charity e-commerce donation platform using ASP.NET Core, Clean Architecture, EF Core, and Azure App Service, implementing scalable APIs, secure donation workflows, and CI/CD automation.

Matrix Project (Portal to create campaigns in Social Media platforms)   Matrix WebSite Test ⬀

- The project appears to be a backend platform designed to create and manage social media advertising campaigns, specifically tailored for e-commerce businesses or private marketplaces. The core value proposition is to streamline and automate the process of launching targeted marketing campaigns across various social networks from a single, unified interface.

- Connect their e-commerce product catalogs or marketplace inventories.
- Define target audiences and campaign objectives (e.g., brand awareness, conversions).
- Automate the creation of ad creatives, copy, and targeting parameters.
- Launch and manage these campaigns across multiple social media platforms (like Meta, Instagram, TikTok, etc.).
- Track performance and optimize campaigns based on integrated analytics.
- This workflow directly addresses the modern marketing need for dynamic, personalized customer journeys as highlighted in industry analyses, moving away from linear funnels to adaptive, multi-channel strategies
- **Technical Used:** Repository Pattern, SMS Services, Payment Gateway (AWS), Social Media platform APIs (Meta Marketing API, TikTok Ads API, etc.), MongoDB & Redis Server.

Aqwon Project (Business Support Application Portal)   Aqwom WebSite Test 🔗
- Developed a full electronic portal for submitting and managing financial support applications using ASP.NET Core Web API and Clean Architecture.
- Implemented a secure authentication system using ASP.NET Core Identity, role-based authorization, and JWT token validation.
- Built a multi-step approval workflow with automated email notifications for reviewers, admins, and applicants.
- Designed secure file upload & document management features with validation, sanitized filenames, and protected storage.
- Integrated reporting and analytics for admins, including application statistics, approval rates, and performance trends.
- Added advanced search and filtering capabilities to streamline reviewing and decision-making.
- Ensured clean separation of layers (Domain, Application, Infrastructure, API) for scalability, maintainability, and testability.
- **Technical Used:** Built a multi-tenant charity e-commerce donation platform using ASP.NET Core, Clean Architecture, EF Core, and Azure App Service, implementing scalable APIs, secure donation workflows, and CI/CD automation.

Technologies

Back-End Development: ASP.NET Core, Entity Framework Core, RESTful APIs, and ASP.NET C#.

Database Management: SQL Server DB, Postgres DB, Mongo DB, and Redis Server.

DevOps and Deployment: Azure App Server, Azure DevOps, and Docker.

Technologies: ASP.NET, Microsoft SQL Server, XCode, and Interface Builder.

Frontend Development: Angular JS, React JS, JavaScript, TypeScript, and JQuery.

Tools and Technologies: GitHub, AJAX, JSON, and Linux commands.

Certificates

2022	C# Fundamental	Microsoft
2023	REST API Advanced	Microsoft

2022	Web Development	Udacity
2022	Database Fundamentals	Mahara-Tech
2022	JavaScript	Mahara-Tech

Languages

Arabic: Native proficiency

English: Professional proficiency