

MOSTAFA ASHRAF

Senior Software Engineer | Full-Stack .NET Developer
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PROFESSIONAL SUMMARY

Results-driven Senior Software Engineer with 3+ years of experience designing, developing, and deploying enterprise-grade web applications. Proven expertise in collaborating with cross-functional teams, architecting scalable solutions, and delivering high-performance systems using .NET technologies. Specialized in examination platforms, healthcare management systems, identity management, and multi-tenant architectures with strong foundations in clean architecture, microservices, and modern front-end frameworks.

TECHNICAL SKILLS

Languages: C#, TypeScript, JavaScript, T-SQL, Python, HTML5, CSS3
Backend: ASP.NET Core 10, ASP.NET Web API, Minimal APIs, EF Core, SignalR, .NET Aspire
Frontend: Blazor Server/WASM, React (TypeScript/Vite), Angular, MudBlazor, Radzen
Databases: MySQL, MS SQL Server, MongoDB
DevOps & Tools: Docker, Git, Azure DevOps, AWS EC2, Firebase
Architecture: Clean/Onion Architecture, DDD, Microservices, REST APIs, SOLID Principles
Concepts: OOP, Asynchronous Programming, Multithreading, Design Patterns
AI & Productivity: AI-Assisted Development (Claude, GitHub Copilot, Cursor), Prompt Engineering

PROFESSIONAL EXPERIENCE

Senior .NET Developer	Feb 2024 – Present
<i>MKCL Arabia Limited • Cairo, Egypt (Remote)</i>	
- Contributed to the architecture and development of a high-concurrency Exam Conduction System using ASP.NET Core 10, Blazor Server/WASM, and MySQL, supporting thousands of simultaneous exam sessions with real-time monitoring. - Engineered scalable RESTful APIs and microservices with Entity Framework Core, implementing adaptive testing algorithms, and SSO integration across enterprise applications. - Supported code quality through Git workflows, Azure DevOps CI/CD pipelines, and cross-functional collaboration with product and QA teams to deliver production-ready solutions.	
Full-Stack .NET Developer	Apr 2023 – Present
<i>Freelance • Remote</i>	
- Built end-to-end web applications using React (TypeScript/Vite), Angular, and Blazor frontends with ASP.NET Core Web APIs, delivering healthcare and education management platforms to production. - Designed and optimized database architectures with MS SQL Server and Entity Framework Core, implementing complex business logic for patient management, financial tracking, and scheduling systems. - Deployed and maintained cloud-hosted applications on AWS EC2, VPS Containers, and Firebase, ensuring high availability, performance optimization, and seamless user experiences across platforms.	

KEY PROJECTS

Online Exam Conduction System — MKCL Arabia Ltd.

Contributed to the development of a comprehensive examination platform supporting real-time exam delivery, proctoring, and result processing. Built with ASP.NET Core Web API, Blazor Server/WASM, MudBlazor, EF Core, and MySQL. Implemented adaptive testing algorithms and multi-language support (Arabic/English).

Document Library — MKCL Arabia Ltd.

Secure document storage backend API for managing encrypted media files including images, videos, and audio. Built with ASP.NET Core Web API and MySQL, featuring encryption at rest for sensitive document handling.

Exam Evaluation System — MKCL Arabia Ltd.

Collaborated on a scalable system for evaluating students' exam answers with user-centric design. Built using ASP.NET Web API, Blazor, MudBlazor, EF Core, and MySQL.

Exam Preparation System — MKCL Arabia Ltd.

Comprehensive exam preparation platform for creating, configuring, and managing examinations with candidate assignment workflows. Built with ASP.NET Core Web API, Blazor WASM, EF Core, and MySQL.

Centralized Identity Provider (SSO) — MKCL Arabia Ltd.

Developed a centralized authentication and authorization system enabling secure user management across multiple enterprise applications. Implemented with ASP.NET Web API, Blazor, and MySQL for scalable identity management.

Itqan Platform (LMS) — Side Project

[Live Version](#)

Multi-tenant SaaS learning management platform for secondary-level education, featuring per-tenant subdomains, subscription-based access, course delivery, exam workflows, and real-time live classrooms with bilingual (Arabic/English) support. Built with ASP.NET Core Web API, EF Core, SQL Server, and three React (TypeScript/Vite/MUI) SPAs (student app, admin management console, marketing landing), integrated with LiveKit for live video sessions and a role-and-claim-based authorization model.

Baligh Management Center — Freelance

[Live Version](#)

Comprehensive academy management system for managing instructors, sessions, students, payments, and financial dues. Built with .NET 10 Web APIs and Blazor WebAssembly, featuring insightful dashboards and automated billing workflows.

Patient Management System — Freelance

[Live Version](#)

Healthcare management platform for medical clinics featuring patient records, appointment scheduling, prescription management, and clinical workflows. Built with React (TypeScript/Vite) frontend and .NET Web APIs backend.

Madrassat Baligh — Freelance

[Live Version](#)

Bilingual (French/English) web platform for an online academy teaching Quran and Arabic to non-Arabic speakers. Developed with Angular, ASP.NET Web API, and SQL Server.

E-Commerce Platform (Organic Food) — Side Project

[Live Version](#)

Full-featured e-commerce platform with real-time operations using SignalR. Built with ASP.NET MVC and MS SQL Server for robust data handling.

Full-Stack IoT Platform — Side Project

[Live Version](#)

IoT platform for real-time environmental monitoring and remote appliance control. Built with Angular, ASP.NET Web API, Firebase RTDB, Arduino IDE, and ESP32 microcontrollers.

EDUCATION

B.Sc. in Computer Science Oct 2017 – Jul 2021

Tanta University, Faculty of Science • Grade: Very Good (82.5%)

Web Development Intensive Program Feb 2023 – Jul 2023

Information Technology Institute (ITI) • Angular & .NET Frameworks (3-Month Intensive Code Camp)

LANGUAGES

Arabic (Native) • English (Fluent) • German (Beginner)