

YOUSSEF MOHAMMED

.NET Backend Engineer

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PROFESSIONAL SUMMARY

.NET backend engineer with 2+ years on government and enterprise platforms in Qatar, Kuwait and Saudi Arabia, including production systems. Most of my work is inside running systems: ASP.NET Core APIs, integrations with national identity and government systems, asynchronous processing on Azure Service Bus, and finding out why an API or CRM call is slow and fixing it. I built the Integration Service of Qatar's national e-services platform from scratch, and I work with Dynamics 365 / Dataverse at code level (C# plugins, Custom Workflow Activities).

EDUCATION

B.Sc. Computer Science and Artificial Intelligence

Beni Suef University | 2019 – 2023 | Grade: Very Good

Graduation project: School Management System (Excellent, A+)

- .NET Core, Angular and SQL Server, with AI-based document processing and separate roles for students, teachers, admins and parents

Professional Training

- Full Stack .NET Development (ASP.NET & Angular) – Information Technology Institute (ITI) | 2023 – 2024
- .NET Full Stack Development – Route Academy | 2022

PROFESSIONAL EXPERIENCE

.NET Backend Engineer

Initium Solutions | Egypt (government clients in Qatar and Kuwait) | June 2025 – Present

- Backend and Dynamics 365 / Dataverse development on two government platforms in production: MSDF (Qatar) and CAIT-MS / Muzn (Kuwait) — details under Projects
- ASP.NET Core services and APIs, government integrations, Dataverse plugins and Custom Workflow Activities, performance work on API and CRM calls; Azure Service Bus, Azure Functions and Azure DevOps CI/CD

Full Stack Developer (ASP.NET / Blazor)

MKCL Arabia Ltd | Saudi Arabia | August 2024 – June 2025

- Backend services, REST APIs and Blazor screens for a Saudi government examination system, now in production — details under Projects

PROJECTS

MSDF National e-Services Platform

Initium Solutions | ASP.NET Core (.NET 8) • Dynamics 365 / Dataverse • Azure Service Bus | Qatar | Production

Citizen e-services platform for Qatar's Ministry of Social Development and Family: citizens apply online, and each request moves through a multi-step workflow that needs data from several government systems.

- Built the Integration Service from scratch: the ASP.NET Core service that connects the platform to national identity and government systems
- Implemented national-identity sign-in and sign-out (OpenID Connect), OAuth 2.0 service-to-service calls, webhooks and Azure Service Bus messaging, with separate staging and production configuration
- Built eligibility checks against government systems, background synchronization with retries, push notifications, Apple / Google Wallet cards and certificates with QR verification codes
- Performance: added request-level timing that logs every CRM call behind an API request (operation, table, duration, CRM time vs. app time), then used it to remove unnecessary round-trips, narrow ColumnSets, page FetchXML queries and cache slow lookups
- Fixed a bulk account update that kept failing on an external service's HTTP 429 rate limit: cached the lookup, retried with backoff and processed in batches, so the job now finishes reliably

CAIT-MS Unified Portal (Muzn)

Initium Solutions | Dynamics 365 CE / Dataverse • ASP.NET Core (.NET 10) | Kuwait | Production

Platform for Kuwait government entities, CAIT and Microsoft to manage Microsoft licensing, Azure requests, entity budgets and consumption, support requests and license surveys.

- Set up the ASP.NET Core portal on Dataverse with Clean Architecture, then built the CAIT administration area, SignalR real-time notifications, consumption and budget dashboards and approval documents
- Wrote the Dataverse plugin layer: license and annual-payment-schedule generation, periodic surveys, request status-transition guards, recalculated totals and portal notifications
- Fixed stored-XSS issues with output encoding and added the xUnit test project

Government Examination Management System

MKCL Arabia | ASP.NET Core • Blazor • EF Core • SQL Server | Saudi Arabia | Production

- Built backend services and REST APIs in ASP.NET Core with EF Core and SQL Server for Saudi Arabia's government education sector
- Implemented JWT authentication and role-based authorization for the system's user roles, and the Blazor screens for their workflows; integrated notification services and government data providers

Compliance Evidence & Document Management System

Freelance · independent delivery | .NET 8 • ASP.NET Core • EF Core 9 • SQL Server | Saudi Arabia | Production

Arabic (RTL) system for collecting, reviewing and approving evidence documents against Saudi digital-government (Qiyas) standards. Built end to end independently, from the data model through deployment.

- Layered architecture with a generic repository and Unit of Work, using execution-strategy-safe transactions
- Per-organization (site-level) row security built with EF Core expression trees and applied automatically in the data layer
- Document versioning with SHA-256 integrity hashes, a review-to-approval workflow and a full audit trail from EF Core change tracking; SQL Server reporting with stored procedures and views

Akariin — Real Estate Management API

Client project (backend only) | .NET 8 • Clean Architecture • CQRS (MediatR) • EF Core | Saudi Arabia | Production

- API for properties, units, contracts, bills, members and maintenance requests: CQRS with MediatR and FluentValidation pipeline behaviours, EF Core auditing interceptors, JWT with page-level permissions, SignalR chat and Firebase push notifications

TECHNICAL SKILLS

Backend: C#, .NET 8/10, ASP.NET Core, Web API, REST APIs, LINQ, SignalR, Background Services

Integrations: Government & third-party APIs, OAuth 2.0, OpenID Connect, Webhooks, Azure Service Bus, Azure Functions

Performance: Request & CRM call timing, FetchXML / query optimization (paging, ColumnSets), caching, retry with backoff, batching

Data: SQL Server, Entity Framework Core, Stored Procedures, Database Design, MySQL

Security: JWT, Microsoft Entra ID, Role-Based Access, Per-Organization Data Isolation, Row-Level Security

Architecture: Clean Architecture, CQRS (MediatR), Repository & Unit of Work, SOLID, Dependency Injection

Dynamics 365: Dataverse, C# Plugins, Custom Workflow Activities, Power Automate, FetchXML, QueryExpression

DevOps & Testing: Azure DevOps (CI/CD), Git, xUnit

Frontend (secondary): Blazor, Angular, TypeScript, JavaScript, jQuery

Languages: Arabic (native), English (professional working proficiency) | Military status: Exempted