

YOUSSEF MOHAMMED

.NET Backend Engineer | Dynamics 365 CE / Dataverse Developer

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PROFESSIONAL SUMMARY

Backend engineer on Dynamics 365 CE / Dataverse platforms for government clients in Qatar and Kuwait, both in production. I work at code level: C# plugins, Custom Workflow Activities, Power Automate, FetchXML and QueryExpression, Dataverse security — plus the ASP.NET Core portals and integration services around Dataverse. I also trace slow CRM calls and fix them. Before Dynamics 365, I built backend services for a Saudi government examination system.

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 & Dynamics 365 CE Developer

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

- Dynamics 365 CE / Dataverse and .NET development on two government platforms in production: CAIT-MS / Muzn (Kuwait) and MSDF (Qatar) — details under Projects
- C# plugins, Custom Workflow Activities (email, status changes, record creation), Power Automate, Dataverse data model and security roles, ASP.NET Core portals and integration services, CRM performance

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

PROJECTS

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.

- Wrote the Dataverse plugin layer: license and annual-payment-schedule generation, periodic surveys, request status-transition guards, recalculated totals and portal notifications
- Dataverse data model, security roles and Dynamics 365 customization (forms, views, business rules), with Power Automate flows for notifications and approvals
- Set up the ASP.NET Core portal on Dataverse with Clean Architecture (ServiceClient, FetchXML, Entra ID sign-in), then built the CAIT administration area, SignalR notifications, consumption and budget dashboards and approval documents; fixed stored XSS and added xUnit tests

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.

- Dataverse plugins driving request steps and status changes, Custom Workflow Activities and webhook-driven request automation
- Built the Integration Service from scratch: the ASP.NET Core service between Dataverse, national identity (OpenID Connect) and government systems, over OAuth 2.0, webhooks and Azure Service Bus
- CRM 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

Government Examination Management System

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

- Backend services and REST APIs in ASP.NET Core, EF Core and SQL Server, JWT with role-based authorization, and Blazor screens

Compliance Evidence & Document Management System

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

- Built end to end independently, from the data model through deployment: repository + Unit of Work, per-organization row security with EF Core expression trees, SHA-256 document versioning, review-to-approval workflow and audit trail

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

Dynamics 365 & Dataverse: Dynamics 365 CE, Dataverse, C# Plugins, Custom Workflow Activities, Power Automate, FetchXML, QueryExpression, Xrm.WebApi

Customization & Security: Data modeling, Forms, Views, Business Rules, Security Roles, Solutions

Portals & Integrations: ASP.NET Core portals on Dataverse (ServiceClient), Entra ID, OAuth 2.0, OpenID Connect, Webhooks, Azure Service Bus, Azure Functions

Performance: CRM call timing, FetchXML paging & ColumnSets, fewer round-trips, caching, retry with backoff, batching

.NET Backend: C#, .NET 8/10, ASP.NET Core, Web API, SignalR, SQL Server, EF Core, Clean Architecture, CQRS (MediatR)

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

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