

Mazdak Parnian

Software Engineer, .NET

2001-11-29

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ABOUT ME

.NET Developer & System Designer with 3+ years delivering enterprise integrations, distributed systems, and CRM solutions on Microsoft Dynamics 365 CE. Technical Product Owner across 2 products at BMSD.

EXPERIENCE

Barid Management Solution Development (BMSD)

.NET Developer & System Designer

JAN 2023 - PRESENT

- Designed & implemented *event-driven integration platform* for major ecommerce and telecom providers using *RabbitMQ*, *MassTransit*, *MediatR*, and *SAGA orchestration*, enabling bi-directional data sync between external APIs and *Dynamics 365 CRM*.
- Delivered enterprise *SSO* solution as sole technical owner, integrating *Keycloak* with *Active Directory*, *MS Dynamics 365 CE*, and *third-party identity providers (OAuth 2.0/OIDC/SAML)*, deploying *Docker* infrastructure
- Improved performance of a data-intensive *SMS handling system* integrated with the CRM, used in one of the key products, by *10x*, reducing processing time from *10 minutes to 1 minute* by optimizing *database queries* and fixing *concurrency* implementation issues.
- Led Developer Education Program: designed curriculum and delivered technical training on *Unit/Integration Testing* and *Identity Management*, establishing quality standards and modern development practices for engineers.

Freelance .NET Development

JAN 2024 - PRESENT

Freelance .NET Developer (part-time) — Jan 2024–Present. Built web services and REST APIs for clients using .NET 8, Docker, RabbitMQ, Traefik.

SKILLS

Languages & Frameworks

C#, .NET, Entity Framework Core, Marten

Microsoft Dynamics 365 CE (Solution Architecture & Development)

Database

MSSQL Server, Postgres, MongoDB, Redis

Messaging

RabbitMQ, MassTransit, WolverineFx, MediatR

Infra

Docker, Docker Compose, Git, Github, Keycloak

Testing Tools

XUnit, NSubstitute, FluentAssertions, WireMock, TestContainers

Architectures & Patterns

Clean Architecture, CQRS, Microservices, Domain Driven Design, Event Driven, Event Sourcing

PROJECTS

SMS Middleware Modernization

Redesigning and rebuilding a legacy .NET Framework SMS middleware from the ground up on .NET 8+. The system bridges Dynamics 365 CE with multiple SMS provider APIs. It handles routing, bulk campaigns with interrupt recovery, and delivery state tracking. Replacing WCF with minimal APIs, hand-rolled concurrency with WolverineFX over RabbitMQ, deprecated CRM SDK with Dataverse.Client, and adding structured observability via Serilog.

FastCrud

Contributor; built the xUnit/FluentAssertions test suite, uncovering and fixing bugs.

<https://github.com/ashkanRmk/FastCrud>

CERTIFICATES

MSSQL, Designing Databases and Writing Efficient Queries - 2024

EDUCATION

IAU Tehran South Branch - *Bachelors in Software Engineering* - 2020 - 2025