

Ahmad (Kiarash) Minoo

Senior .NET Engineer | Full-Stack | Azure | Microservices

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SUMMARY

I've been writing .NET in production since version 1.0 in 2002 and I'm currently on .NET 10 and .NET Framework. Over 23 years I've delivered systems across fintech, telecom, enterprise SaaS, and higher education. The clearest example of how I work: at Alo Application I rewrote a binary market-feed parser in unsafe C# and cut parse time from 30 microseconds to 44 nanoseconds, which let the system reach 500,000 Kafka messages per second in production. I mentor junior engineers, lead code reviews, and build the shared foundations that other teams build on. Outside work I maintain ThunderPropagator, a multi-protocol streaming library published on NuGet with 970+ commits.

SKILLS

Languages: C#, SQL, TypeScript, JavaScript

Frameworks & Runtime: .NET 10, .NET Framework, ASP.NET Core, ASP.NET MVC, Entity Framework Core, EF Core, Dapper, .NET MAUI, Angular

Architecture & Patterns: Microservices, Clean Architecture, CQRS, DDD, SOLID, Design Patterns, Event Sourcing, Outbox/Inbox, Saga, REST API, gRPC

Messaging: Kafka, RabbitMQ, NATS, WebSockets, SignalR, MQTT5, QUIC

Data: SQL Server, T-SQL, PostgreSQL, Redis, NoSQL

Cloud & DevOps: Azure, Azure DevOps, AWS, Docker, Kubernetes, CI/CD, GitHub Actions, Prometheus, Grafana

Auth & Security: OIDC, OAuth 2.0, JWT, OpenIddict, Rate Limiting, Secure Coding

Testing: xUnit, NUnit, Moq, TDD, Integration Testing, Unit Testing

EXPERIENCE

Senior .NET Engineer, Asl Al-Uroba

Apr 2025 – Present

Baghdad / Muscat | .NET 10, ASP.NET Core, Kafka, RabbitMQ, Redis, ABP, OpenIddict, PostgreSQL, Angular

- Built the shared platform SDK adopted across 5 product teams (PGA, CAS, UAP, PAP, SLS). Key component: a QueueBroker abstraction supporting both Kafka and RabbitMQ with outbox/inbox messaging — teams choose the broker per service without changing application code. Also covers pattern-based cache invalidation, credential encryption middleware, Prometheus/Grafana observability, and Hangfire scheduling.
- Built the student admissions platform (PGA) from scratch: a 10-step application workflow with dynamic age-rule engine and competitive exam ranking. 80,000 students processed through it.
- Delivered the college admissions module (CAS): a 4-step workflow with GPA tie-breaker scoring and Ta3leem SDK integration to automate results import. 5,000 students enrolled through it.
- Built the auth portal with OpenIddict OIDC, per-tenant rate limiting, and MinIO document storage. Serves as the single sign-on layer for all 5 platform products.
- Mentored 2-3 junior engineers through weekly code reviews and architecture walkthroughs, covering SOLID principles, design patterns, and Clean Architecture.

Senior .NET Developer, Creative Advanced Technology (CAT)

Nov 2022 – Jul 2024

Dubai, UAE | C#, .NET microservices, RabbitMQ, Azure, Azure DevOps, .NET MAUI

- Architected and built Creatio on Azure for EarthLink, Iraq's largest ISP with 2,700+ employees and 400+ points of presence. Independent microservices connected by RabbitMQ handled customer onboarding, technician scheduling, SLA tracking, and fault resolution. Worked directly with EarthLink stakeholders to translate operational requirements into service design.
- Built a cross-platform .NET MAUI exam engine for Windows, Android, and iOS with proctoring (taskbar lock, mic capture, randomised webcam snapshots), full offline mode, auto-save, and result sync on reconnect.
- Designed the integration and domain-event layer for a university management platform, connecting vendor APIs to the core domain and standardising OIDC/JWT auth across all services.

Senior .NET Developer, Alo Application

Mar 2021 – Nov 2022

Tehran | Kafka, unsafe C#, .NET microservices, stock trading

- Rewrote the MMTP market-feed deserializer in unsafe C#. Parse time went from 30 microseconds to 44 nanoseconds (700x faster). That removed the main throughput bottleneck and the system reached 500,000 Kafka messages per second in production.
- Scaled Kafka ingestion to 500,000+ messages per second by redesigning partitioned subscriptions, adding back-pressure control, and tuning in-process ring buffers.
- Set up CI/CD pipelines with automated xUnit test gates and deployment quality checks. Mentored 2-3 engineers through code reviews and established coding standards for new service boundaries.
- Split the monolith into separate services for order management, portfolio, and notifications.

Full-Stack Developer, Negin Ertebatat Ava (NeginTel)

Mar 2020 – Mar 2021

Tehran | C#, .NET, SQL Server, Angular, HLR integration

- Designed and built a Buyer Authentication module end-to-end: registration flow, identity verification, JWT session management, and NetSIM provisioning integration. Around 100,000 users registered through it.
- Built Angular front-end modules for the NetSIM self-service customer portal.

Senior .NET Developer, Netap / Asanpardakht

Sep 2018 – Mar 2020

Tehran | C#, .NET, RabbitMQ, SQL Server, insurance microservices

- Introduced CQRS and a RabbitMQ event bus to separate write-heavy insurance policy issuance from read-heavy reporting, reducing query contention under peak load.
- Built MVNO microservices covering SIM sales, activation, recharge, and customer portal, integrated with HLR and billing systems. Also delivered insurance workflows for quote, issuance, and premium collection, connected to the national payment switch.

Earlier (2003 – 2018)

- Goldiran (2017-2018): built 5 enterprise systems in C#, ASP.NET MVC, and Web API — WMS (warehouse), DMS (distribution), LMS (learning), VMS (vendor stores), and the GI internal framework. Integrated RFID tracking and a real-time SignalR dashboard.
- Pegah System (2015-2017): inventory, purchasing, and multi-branch reporting in ASP.NET MVC and SQL Server.
- SamaPardaz (2013-2015): CRM workflow automation and scheduled enterprise reporting using ASP.NET MVC and WCF.
- Hamfekran (2011-2013): rewrote the batch import pipeline for 5 million+ vehicle registration records. Parallel ADO.NET batching and SQL tuning cut overnight processing from 8 hours to under 90 minutes.
- Iran File / Iran Media (2003-2009): built a real-estate MIS from scratch for 1,000+ agencies across Iran. Started in Delphi, migrated to C#. Custom multi-branch offline sync protocol.

OPEN SOURCE

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- ThunderPropagator (NuGet, 970+ commits): multi-protocol .NET 10 streaming library supporting WebSockets, MQTT5, QUIC, WebTransport, and TCP/UDP. WebTransport is implemented directly inside the library. Six-repo monorepo with a Feeviders layer for Kafka, RabbitMQ, NATS, and TCP/UDP.
 - IIIF.Manifest.Serializer.Net: full IIIF manifest serializer supporting Auth API 1.0/2.0, georeferencing, Content State, and Discovery API.
 - Also: BlockChainLogging (tamper-proof chained-hash audit trail), CaptchaWithSkiaSharp (GDI+-free server-side CAPTCHA), LicenseManager (cross-platform C/C++ native library with C# P/Invoke).

EDUCATION

ACCP-07 Diploma in Information Technology, Aptech Computer Education

2007

Certification: ASP.NET Core MVC (.NET 8) E-Commerce App — Udemy

Languages: English (full professional), Persian (native)