

Mojtaba Norouzi

Senior Software Engineer · Backend & Distributed Systems

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SUMMARY

Backend engineer with 8 years building scalable, high-throughput e-commerce, logistics and financial-services systems — the last four at Okala, one of Iran's largest online grocery platforms, handling 150K+ orders a day and over 300K during campaigns. Twice built the replacement for a live production platform from scratch, migrated every operational flow onto it, and retired the original; now building a .NET 10 delivery-operations platform of four independently deployable services — around 200 versioned REST endpoints, a 40-topic Kafka event backbone with per-entity ordering and a transactional outbox, and geospatial store coverage on SQL Server. Depth in .NET, distributed systems, event-driven architecture and domain-driven design, backed by an M.Sc. in Artificial Intelligence and a peer-reviewed publication on reinforcement learning.

CORE TECHNICAL SKILLS

- **Languages & frameworks:** C#, .NET 6-10, .NET Framework, ASP.NET Core, Entity Framework Core, LINQ, Polly
- **Architecture:** Clean Architecture, Domain-Driven Design (DDD), Event-Driven Design (EDD), microservices & modular monoliths, REST API design & versioning, transactional outbox
- **Messaging & data:** Apache Kafka, RabbitMQ, Redis, SQL Server, T-SQL, geospatial data (NetTopologySuite, SQL Server spatial types)
- **Observability:** Prometheus, Elastic APM distributed tracing, Serilog structured logging, Elasticsearch
- **Infrastructure & delivery:** Kubernetes, Docker, GitLab CI/CD, Git, monorepo, Hangfire, production on-call
- **Testing & practice:** xUnit, Testcontainers, Moq, BDD (Gherkin/Reqnroll), spec-driven AI-assisted development, Agile (Scrum)

EXPERIENCE

Senior Software Engineer — Okala (Golrang Industrial Group)

Tehran, Iran · Oct 2024 - Present

Promoted from Software Engineer · Feb 2022 - Sep 2024

Okala is the online retail arm of Golrang Industrial Group (~100 subsidiaries, ~50,000 employees). Scope progression: Fulfillment & Delivery → Logistics → Operational Excellence.

- Owned execution of a multi-year migration off the fulfillment monolith across four platform generations — Fulfillment & Delivery services on Kubernetes, then Logistics, then Operational Excellence — carrying each migration end to end.
- Twice built the replacement for a live production platform from zero — first fulfillment, then delivery — took each to production, migrated every operational flow across, and decommissioned both legacy systems, retiring the monolith's operational surface entirely.
- Improved platform reliability — production incidents fell from near-daily to 1-2 per month — by migrating off Windows Server infrastructure and its maintenance windows onto cloud-native containerized services on Kubernetes.
- Built, with the team, the current delivery-operations platform — four independently deployable .NET 10 services (two REST APIs, two Kafka consumer workers) in one Clean Architecture monorepo — exposing around 200 versioned REST endpoints, with four versions of the store API running side by side behind JWT auth, role-based authorization and per-user rate limiting.
- Led the platform's Kafka event-backbone work — a 40-topic backbone across the four services — with at-least-once delivery and per-entity ordering by keying every message on its business entity ID.

- Hardened event delivery against failure: consumer retry with backoff, a persisted transactional outbox whose sweeper reprocesses failed events every 2 minutes, and an atomic Redis SET NX guard that prevents duplicate customer notifications across service replicas.
- Designed AutoRadius, a rules engine replacing manual per-store delivery-radius configuration — encoding operations agents' expertise as rules over time of day, weather and pending-order backlog — fed by a Kafka pipeline that re-partitions order-keyed events onto one ordered partition per store, avoiding lock contention on a shared table.
- Built geospatial store coverage and nearby-store search on SQL Server spatial types with NetTopologySuite (SRID 4326) — delivery-radius coverage, polygon non-coverage areas and distance-ranked results.
- Evolved two SQL Server schemas through EF Core migrations, split reads onto a read-replica DbContext, and wrote a NOLOCK query extension that keeps read-uncommitted hot paths compatible with EF Core's retrying execution strategy.
- Stood up the containerized integration harness behind a three-tier test suite — real SQL Server and Redis via Testcontainers, two full ASP.NET Core hosts driven over real HTTP through typed clients, sharded across parallel GitLab CI jobs.
- Instrumented all four services with dimensional Prometheus business metrics, structured Serilog logging shipped to Elasticsearch, and Elastic APM distributed traces propagated across HTTP, EF Core, Redis and Kafka.
- Planned and executed the platform's phased .NET 8 → .NET 10 migration across all four services.
- Codified the team's engineering standards in a project constitution and built the spec-driven, AI-assisted development workflow behind them; delivery throughput held steady (tracked in Jira) after headcount dropped from five engineers to three.
- Mentor mid-level and junior engineers through code review, design review and day-to-day technical unblocking.

Backend Engineer

Capital-markets software company · Tehran, Iran · Oct 2018 - Feb 2022

- Built backend services for an online meeting and conferencing platform connecting stock-market participants, launched during the COVID-19 period to replace in-person stakeholder meetings.
- Developed and maintained core services in C# and ASP.NET, backed by RabbitMQ, SQL Server and Redis.
- Built internal operations tooling, including automated reporting and real-time dashboards.

EDUCATION & RESEARCH

M.Sc. in Artificial Intelligence

Shahid Beheshti University · 2016 - 2019

Multi-Agent Systems (MAS) Lab — thesis research on transfer learning for reinforcement learning.

B.Sc. in Computer Engineering

Shahrood University of Technology · 2012 - 2016

PUBLICATION

- “Experience Classification for Transfer Learning in Traffic Signal Control” — *The Journal of Supercomputing* (Springer), 2020. link.springer.com/article/10.1007/s11227-020-03287-x

LANGUAGES

- **Persian:** Native
- **English:** Professional working proficiency — used daily at work