MOHAMMAD MAHDI AHMADI

BACK-END SOFTWARE ENGINEER (.NET)

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PROFILE

Backend Software Engineer (7+ years) building high-scale **FinTech/Crypto** systems on **.NET**. Specialized in **microservices** and **event-driven architectures** (**DDD/CQRS**) with hands-on ownership across service design, performance optimization, and production reliability. Led modernization of two monoliths into ~30 Dockerized services; improved average response time and supported 300+ RPS and 1,000+ msgs/sec via **RabbitMQ/MassTransit**. Strong in observability (**Serilog, OpenTelemetry, Grafana**), engineering standards, and cross-functional delivery.

PROFESSIONAL EXPERIENCE

Backend Software Engineer (.NET), Golden Paros Trading Ltd   **Mar 2021 - Present**

Limassol, Cyprus
  - **Modernized two monoliths into ~30 Dockerized microservices**, improving API responsiveness by ~50% through clear service boundaries and a DDD/CQRS-based architecture on .NET.
  - **Sustained 300+ RPS with predictable latency** by optimizing critical paths (API design, data access, caching) and applying profiling-driven performance fixes.
  - **Built an event-driven pipeline processing 1,000+ msgs/sec** using RabbitMQ + MassTransit, with Outbox + idempotency to improve reliability and decouple services, measured via APM dashboards and load tests (k6/JMeter); validated in production.
  - **Standardized sync vs async integration patterns** (REST for request/response; messaging for workflows/background processing) to reduce coupling and integration defects.
  - **Delivered internal NuGet shared libraries** to standardize cross-cutting concerns (auth primitives, logging, config, HTTP clients), improving consistency and developer speed with semantic versioning and CI publishing.
  - **Improved SQL Server performance** via query tuning and index design, and applied targeted Redis caching for high-traffic endpoints.
  - **Improved production observability** with structured logs (Serilog), distributed tracing/metrics (OpenTelemetry), and Grafana dashboards, reducing time-to-diagnose incidents.
  - **Raised engineering quality** through architecture reviews, high-signal code reviews, and technical documentation across teams.

Tech: .NET 6 & 8, ASP.NET Core, SQL Server, Redis, RabbitMQ, MassTransit, Docker, OpenTelemetry, Grafana, Serilog

Backend Software Engineer (.NET), AVA Pars Doran (AVA group)   **Dec 2018 - Mar 2021**

Tehran, Iran
  - Built real-time **FX/crypto** rate services (fiat: 1-min, crypto: 1-sec) with ingestion and broadcast via **Windows Services** + **WebSockets**.
  - Improved reliability of rate distribution through retries, scheduling hardening, and operational monitoring for **background services**.
  - Integrated multiple **banking/payment gateways** with robust validation and error handling to reduce failed/incorrect transactions.
  - Designed and optimized **SQL Server** schemas and indexes for large datasets to improve query performance.

Backend Software Engineer (.NET), IT Shams   **Mar 2017 - Aug 2018**

Tabriz, Iran
- **Built auction data conversion tools**, improving data consistency across systems, by automating the transformation and validation of incoming auction datasets.
- **Built and optimized backend APIs** for real-estate platforms serving 5,000+ monthly visitors; improved response time and reliability through endpoint and database optimizations.
- **Implemented automated data extraction pipelines for property advertisements**, expanding the internal property database by building scheduled collection, parsing, deduplication, and data integration workflows.

EDUCATION

University of Tehran   **Feb 2025 - Present**

Master of Business Administration - MBA, Tehran, Iran
Distance, focus on project planning/control, Agile/Lean, risk & compliance, EVM.
Relevant coursework: Strategy, Operations, Financial Analysis, Data-driven Decision Making.

Islamic Azad University   **Sep 2013 - Aug 2015**

Bachelor's degree, Computer Software Engineering, Tabriz, East Azerbaijan Province, Iran

Kumesh University   **Oct 2009 - Jun 2011**

Associate's degree, Computer Software Engineering, Semnan, Semnan Province, Iran

TECHNICAL SKILLS

Backend / .NET
- C#, .NET, .NET Core, ASP.NET Core, Minimal APIs, REST APIs

Microservices & Architecture
- Microservices, DDD, CQRS, Clean Architecture, SOLID, Design Patterns
- Event-Driven Architecture, Outbox Pattern, Idempotency

Messaging
- RabbitMQ, MassTransit

Security:
- OAuth2/OIDC, JWT, OWASP basics

Testing:
- xUnit/NUnit, integration testing, mocking (Moq)

Data & Caching
- SQL Server (Query Tuning), Redis, MongoDB, EF Core

Observability
- Serilog, OpenTelemetry, Grafana

DevOps
- Docker, GitHub Actions, GitLab CI, CI/CD

ADDITIONAL INFORMATION

Links:
LinkedIn: https://linkedin.com/in/mahdiahmadi1991
GitHub: https://github.com/mahdiahmadi1991
GitLab: https://gitlab.com/mahdi-ahmadi
Website: https://mahdiahmadi.dev