

Alaa Mohamed

Senior .NET Developer · Team Lead · Backend & Architecture

Cairo, Egypt | +20 109 400 2482 | contact@alaa-mohamed.com

LinkedIn: [linkedin.com/in/alaa-mohamed-879966321](https://www.linkedin.com/in/alaa-mohamed-879966321) GitHub: github.com/alaamuhamed2097

SUMMARY

Senior .NET developer and team lead with 6+ years building and shipping full-stack and backend systems. Currently lead a 5-person cross-functional team at ITLegend, owning the architecture of two live e-commerce platforms across Egypt and Jordan. Strong focus on clean, maintainable backend design — Clean Architecture, Domain-Driven Design, Modular Monolith, CQRS, EF Core, and message-driven workflows with RabbitMQ — with a track record of diagnosing and fixing real performance and data-consistency problems in production.

TECHNICAL SKILLS

Languages & Frameworks: C#, .NET / .NET Core, ASP.NET Core, Blazor, .NET MAUI, Xamarin Forms

Architecture & Patterns: Clean Architecture, Domain-Driven Design (DDD), Modular Monolith, CQRS / MediatR, Repository Pattern, SOLID

Data & Caching: SQL Server, Entity Framework Core, query optimization & indexing, Redis (caching)

Messaging & Real-time: RabbitMQ, SignalR

DevOps: Docker, Git & GitHub

Integrations: Payment gateways (Stripe, PayPal, Paymob, Fawaterak, HyperPay / CopyAndPay), Twilio WhatsApp API, Google / Facebook auth

Practices & Tooling: Postman, Agile / Scrum, code reviews, unit testing (xUnit)

Currently expanding into: Azure, microservices, CI/CD

EXPERIENCE

ITLegend

Oct 2023 – Present

Senior .NET Developer & Team Lead · Cairo, Egypt

- Lead a cross-functional team of 5 (2 backend, 1 frontend, 1 mobile) — owning architecture decisions, technical direction, and task distribution.
- Designed the architecture from scratch for **two live e-commerce platforms** (Egypt and Jordan) — a multi-vendor marketplace and a fashion-retail store — covering backend, data model, service boundaries, and Redis-backed caching.
- Architected the **order-creation workflow** to persist the order, shipments, and payment in a single atomic transaction for consistency, while offloading notifications, email, and SMS to **RabbitMQ** so side-effects never block or fail the core order.
- Diagnosed and resolved a **~20s performance bottleneck** on the student dashboard of an e-learning platform (~300 concurrent users) by splitting an overloaded endpoint, precomputing heavy progress and statistics calculations, and adding caching plus targeted database indexes — cutting response time by over 5x.
- Integrated multiple local and international payment gateways (Stripe, PayPal, Paymob, Fawaterak, HyperPay / CopyAndPay) and WhatsApp messaging (Twilio) across company projects.
- Designed gamification systems — badges, leaderboards, ranking, and virtual currency — for an MLM platform (Riseon).
- Run technical interviews and code reviews to keep code quality and delivery consistent across the team.

Also delivered / contributed to **Riseon** (MLM), **Wasiitk** (classifieds marketplace), and **Property-Search** (real estate) — ASP.NET Core backends with Blazor admin panels.

Freelance / Contract .NET Developer

2018 – 2023

Remote

- Delivered custom web and mobile applications for clients across HR, education, real estate, e-commerce, and business management.
- Built cross-platform mobile apps with .NET MAUI and Xamarin Forms, and full-stack systems with ASP.NET Core and Blazor.

- Implemented GPS tracking, admin dashboards, real-time features, and external authentication (Google / Facebook).
- Collaborated with academic teams on gamified systems supporting postgraduate research projects.

PERSONAL PROJECT

Souqna — Multi-Vendor E-Commerce Platform API

Ongoing

Self-initiated architecture project

- Built to practice production-style backend architecture: **Clean Architecture, Domain-Driven Design, and a Modular Monolith** structure with CQRS (MediatR) and message-driven workflows via RabbitMQ. Implemented the Catalog and User Management modules with rich domain models, aggregates, and domain events.
- Added JWT auth with refresh-token rotation, role-based access, soft-delete with automatic audit trails, health checks, rate limiting, structured logging (Serilog), and unit / integration tests.

EDUCATION

B.Sc. in Communications & Electronics Engineering

2016 – 2020

Mansoura, Egypt

LANGUAGES

Arabic — Native **English** — Professional