Mohamed Moghalis

Full-Stack Software Engineer · .NET · React/Next.js · Flutter · AI Integration

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SUMMARY

Full-stack engineer with 3 years building production ERP, e-commerce and SaaS systems for real businesses in Saudi Arabia and the US: data models and databases, APIs, web, mobile and desktop apps, e-invoicing and payments, and the servers, security and releases under them. Eighteen products built; eleven are live in production. Also a graphic and motion designer (Illustrator, Photoshop, After Effects). Arabic and English.

SELECTED ACHIEVEMENTS

- Built ZATCA Phase-2 e-invoicing from scratch in C#: UBL 2.1, XAdES signatures with ECDSA, per-till hash chains, certificate onboarding, clearance and reporting, with an offline queue; proven end to end on ZATCA's sandbox with 25 dedicated tests.
- Shipped FinyX ERP to v1.14.1: ~427k lines, ~810 tests, 117 tables, a signed Windows installer, an Android app and a licence server with passkey sign-in; in daily use at a restaurant.
- Led development of an Arabic-first AI marketing SaaS: ~158 tables, ~260 endpoints, generation pipelines across Claude, OpenAI, Gemini, Veo and ElevenLabs, and its own deployment control plane.
- Built a multi-tenant utility platform on PostgreSQL with 190 row-level-security policies, mutual-TLS SMS gateways and point-in-time backups, self-hosted with Docker and Caddy (~1,980 tests).

CORE COMPETENCIES

CORE
C# / .NET, ASP.NET Core, Entity Framework Core, TypeScript, React, Next.js, Node.js / NestJS, Flutter / Dart, PostgreSQL, REST APIs, Docker, CI/CD (GitHub Actions), Tailwind CSS, AI integration (Claude, OpenAI, Gemini), ZATCA e-invoicing

FAMILIAR
Python, Kotlin, Rust / Tauri, React Native / Expo, WPF, SQLite, SQL Server, MySQL, Redis, Three.js / WebGL, Keycloak, Prometheus / Grafana, Cloudflare Workers, Caddy / nginx, MikroTik RouterOS

QUALITY AND SECURITY
xUnit, Vitest, Playwright, Testcontainers; row-level security, mTLS, certificate pinning, WebAuthn passkeys, ECDSA and Ed25519 signing

INTEGRATIONS
ZATCA Phase 2, Moyasar and Apple Pay, WhatsApp Cloud API, Salla, Meta and TikTok APIs, SMS gateways, Google APIs

CREATIVE
Adobe Illustrator, Photoshop and After Effects, Blender: brand identities, motion-graphics and 3D product films

EXPERIENCE

Head of Development (lead engineer)
SAIMA (saimahub.ai)
Jun – Nov 2026
Saudi Arabia · remote

- Led engineering of an Arabic-first AI marketing SaaS end to end: six Next.js zones, a TypeScript API (~260 endpoints), a Python AI service and PostgreSQL (~158 tables with row-level security), released through its own control plane.
- Built the AI production line (copy, images, voice and video across five providers) and integrated Moyasar billing, Salla and publishing to Meta and TikTok; ~740 automated tests.

Sole Software Engineer

Jul – Nov 2026

DaelOffice (daeloffice.com)

- Management platform for internet network businesses: card stock, distributors, double-entry finance and 19 reports, on ASP.NET Core with an offline Flutter app; ~166k lines, ~1,325 tests.

Software Engineer, with the agency's team

Sep – Nov 2026
Saudi Arabia · remote

Kaizen Group (kaizenksa.com)

- Silver Precision (silverprecisiongroup.com): engineer of the 3D store the agency delivered: nine interactive models, an engraving editor, customer accounts.
- Campaign site with 89 video reels and Google Ads tracking; event registration with QR check-in gates, used at World Tourism Day 2026.

Designer and Developer (solo)

Oct – Nov 2026
Saudi Arabia and USA · remote

Rsad Aljazeera (rsadaljazeera.com) and Cell Zone (cellzone.us)

- A 16-page Arabic site for a CCTV company and a nine-page site for a US phone wholesaler, each with its brand work: a logo in 16 variants, an animated reveal and a motion ad.

Sole Software Engineer

Jun – Aug 2026

Bin Masoud General Trading (benmasood.com)

- Arabic-first online store: a NestJS API (~195 endpoints) on PostgreSQL, with an admin back office.

Founder & Software Engineer

2026
Saudi Arabia

FinyX (own products)

- FinyX ERP (finyxerp.com), accounting, POS and ZATCA e-invoicing; FinyxWatt (finyxwatt.com), operations for electricity and water stations; AppTime, a screen-time lock for Windows and Android.

Motion Graphics Designer

2024

Logix ERP and Anardes International

- Motion films drawn scene by scene in Illustrator and animated in After Effects, among them the Logix Academy launch.

EDUCATION

Bachelor of Information Technology, Al-Andalus University for Science and Technology (2026)

LANGUAGES

Arabic: Native · English: Professional working proficiency (B2)

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