

MOHAMMAD OTAQI

SOFTWARE ENGINEER — FULL-STACK & MOBILE

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SUMMARY

Software Engineer who ships products end to end: backend, web, mobile and store release. At ZagTrader builds capital-markets systems in C#/.NET and TypeScript, including SWIFT settlement, FIX and exchange connectivity, and the React GUI of an AI-driven test-automation platform. Outside work builds mobile apps in Flutter and React Native/Expo and multi-tenant SaaS in Next.js and Django, with CI/CD, subscriptions, ads and Google Play releases.

PROFESSIONAL EXPERIENCE

Software Engineer — ZagTrader Jul 2023 – Present

SWIFT SETTLEMENT PLATFORM

- Built the Swift Suite (Engine, Bridge, Monitor) in C#/.NET 10: end-to-end ISO 15022 securities settlement (MT540-548, MT564, MT598/599) with maker-checker approval, an async build-and-validate pipeline (Prowide/IKVM) and gateways to Fineksus, Tadawul/Edaa and SFTP; rebuilt the Tadawul/Edaa templates from the spec and fixed live network NAKs.
- Designed its public REST API (55 OpenAPI operations) with scoped, rotatable API keys, idempotent submission and signed webhooks — 59/59 endpoints verified live; added Azure Key Vault / HashiCorp Vault secrets, RBAC and offline TOTP 2FA.

AI TEST AUTOMATION

- Built the GUI and production release pipeline for ZT-AMTP, a multi-agent LLM platform that crawls web apps and generates, runs and certifies Playwright tests (Temporal, Fastify, Drizzle/PostgreSQL, React); raised the customer-app pass rate from 41% to 67.7%.

TRADING CONNECTIVITY

- Delivered FixPortal to production: QuickFIX/n dictionary validation, per-market rules and message diffing (ASP.NET Core, EF Core, PostgreSQL, React), with 170+ automated tests and CI/CD.
- Integrated exchanges and data feeds: Crypto.com FIX (HMAC logon, TLS pinning, market data and order entry), AIX, BVB (845 instruments), CoinMENA (Ed25519 signing), CMC Markets FX, OKX and IDC, whose historical reader replaced a legacy PHP job.

INTERNAL TOOLS & DEVOPS

- Shipped ZagKeyGenWeb licensing (AES/HMAC/TripleDES) to production on Docker Compose; built the WatchList real-time dashboard (React + SignalR); migrated five repositories from SVN to Gitea; analyzed ZagTraderConnector integrations; packaged apps via Inno Setup.

Flutter & Mobile Application Developer — Lightning Gate (JPECO) Jul 2024 – Mar 2025

- Developed and maintained mobile applications using Flutter & Firebase, ensuring stability and scalability.
- Partnered with developers and designers to implement features and fix bugs, improving user experience and app reliability.

Esports Staff — Jordan Esports Federation (JEF/JEG) Jul 2023 – May 2025

- Provided IT support and refereed official national esports tournaments.

Technical Support & Web Development — HTU Online Learning Center Jun 2023 – Oct 2023

- Contributed to the HTUx platform with user manuals and technical documentation; delivered staff IT support.

Technical Support System Controller — HTU Student Activities Nov 2021 – Jul 2024

- Managed IT systems and technical operations for student events, including MACH1 with AreoSquad at King's Academy.

SELECTED PROJECTS

More projects, live demos and screenshots at mohammadotaqi.com

Sudur — Quran Memorization App | React Native, Expo, Django, DRF, PostgreSQL

- Began as Sabaq, a 3-developer hackathon project where I owned the Django/DRF backend; led its release as Sudur on Google Play closed testing and App Store submission.
- AI recitation grading with Whisper speech-to-text matched against the correct text; Mushaf reader, prayer times with adhan and Android home-screen widgets, in Arabic and English.
- Release pipeline from push to signed build on the Play testing track, gated by 229 Jest tests; RevenueCat subscription and AdMob with UMP consent.

MOT — Gaming Community Platform, Web + Mobile | Flutter, Firebase, React, TypeScript, Node.js, PostgreSQL, LiveKit

- Flutter + Firebase app for look-for-group matchmaking, real-time chat with FCM push, a gaming-news feed and content moderation; on Google Play internal testing.
- n0tmot.com web platform: Discord-style servers and channels with Socket.IO messaging and LiveKit voice/video on Node.js, PostgreSQL and Redis; Stripe and RevenueCat subscriptions.

Mabsim — Multi-Tenant Clinic Management SaaS | Next.js 16, TypeScript, Supabase, PostgreSQL

- Clinic platform with online booking, patient records, dental odontogram and orthopedic charts, invoices and WhatsApp reminders via the Meta Cloud API; Arabic-first RTL.
- Per-clinic row-level security and database constraints that block double-bookings and overpayment; JoFotara e-invoicing.

ShieldKin — Family-Safety Wristband & Companion App | Flutter, Fastify, PostgreSQL, Valkey, three.js, build123d

- Rebuilding my MedGuard graduation project as a wristband, optional ring and app: tracks vitals against personal baselines, alerts carers on falls and critical readings and guides first aid, in Arabic and English.
- Built shieldkin.com with a scroll-driven 3D wristband (three.js); designed the 3D-printable case in code (build123d) with an interactive web 3D viewer.

SKILLS

Languages: TypeScript, JavaScript, C#, Dart, Python, SQL, Java
Mobile: Flutter (Riverpod, BLoC, Provider), React Native/Expo, Firebase, RevenueCat, AdMob, Google Play and App Store release, EAS
Web: React, Next.js, TanStack Query, Tailwind CSS, Vite, PWA
Backend: Node.js, Fastify, NestJS, Django/DRF, .NET 10, ASP.NET Core, EF Core, SignalR, REST/OpenAPI, Webhooks, Socket.IO
Data: PostgreSQL, Supabase (RLS), SQL Server, Valkey/Redis, Prisma, Drizzle ORM
DevOps & Testing: Docker Compose, CI/CD (GitHub/Gitea Actions, EAS), Linux servers, Git, Playwright, Vitest, Jest, xUnit
Security: JWT, OAuth/Entra SSO, TOTP 2FA, RBAC, HMAC, Ed25519, Azure Key Vault, HashiCorp Vault
Fintech: SWIFT ISO 15022, FIX 4.4/5.0 SP2 (QuickFIX/n), market-data and exchange connectors
AI Engineering: LLM agents, MCP (Model Context Protocol), prompt & context engineering, Whisper speech-to-text
Professional: Problem solving, communication with technical and non-technical people, teamwork, project coordination, continuous learning

EDUCATION

B.Sc. Computer Science — Al Hussein Technical University (HTU) | GPA: Excellent Oct 2021 – Jul 2025

CERTIFICATIONS, AWARDS & LEADERSHIP

- Google (Coursera): IT Support (2023), Project Management (2023) · DataCamp: Python, NumPy, pandas
- Top 24 Finalist — Ahli Fintech Hackathon (2025) · 7th Place — Tech 3arabi Hackathon (2025) · Best Member — GDVC (2024)
- ACM @ HTU Treasurer & IT Support · Students Deanship volunteer · MUN, Run Jordan and community events

LANGUAGES

Arabic — Native · English — Fluent (C1) · French — Beginner (DELFI A1)