OMAR AL-QADHI

Full-Stack Software Engineer

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PROFESSIONAL SUMMARY

Full-Stack Software Engineer and Computer Science graduate experienced in delivering production systems end to end — from Flutter mobile apps and Python/Frappe backends to ERPNext integrations and Linux deployment. Skilled in secure REST API design, bilingual (Arabic/English) web portals, and clean, maintainable code, with a track record of architecting enterprise solutions, fixing critical bugs, and hardening systems against security risks.

TECHNICAL SKILLS

Languages: Python, Dart, JavaScript, C#, Java, C++, SQL, PHP

Backend: Frappe Framework, ERPNext, Laravel (PHP), NestJS, .NET (C#), REST API design

Mobile: Flutter, Dart, GetX, Provider, Firebase (Auth, Firestore, FCM)

Frontend: HTML5, CSS3, JavaScript, responsive UI, RTL (Arabic) support

Databases: MariaDB, MySQL, PostgreSQL (Prisma), SQL Server, Firestore, SQLite (Sqflite)

DevOps & Tools: Linux/Ubuntu, Git/GitHub, Redis, Bench, CI workflows, VS Code

Practices: Clean Architecture, MVC/MVVM, scheduled jobs, HMAC security, offline-first sync

PROFESSIONAL EXPERIENCE

Full-Stack Software Engineer — Carry Go (Warehouse & Logistics System) *Boulevard City, Riyadh | 2026*

Frappe / ERPNext · Python · Flutter · MariaDB · Redis · Linux

- Designed and built a complete custom Frappe app (`carry_go`) covering hooks, fixtures, setup data, role-based permissions, and scheduled background tasks.
- Developed a bilingual (Arabic/English) Warehouse Portal for supervisors and staff, handling order management, attendance, payroll, and accounting from a single interface.
- Built an embedded accounting module rendering P&L, General Ledger, detailed invoices, and KPI cards — integrated directly with ERPNext so users never leave the portal.
- Engineered Python/Frappe backend APIs powering both the delivery-agent and customer Flutter apps: HMAC-QR attendance, FCM push notifications, deposit management, and reporting.
- Deployed and configured ERPNext v16 on an isolated Bench in parallel with v15 (separate Redis ports, Python 3.14, Node 24) with zero conflicts.
- Resolved critical production bugs, including a timer defect that overwrote pages every 12 seconds, and removed insecure credit-card storage code (**P0 security** fix).

- Administered MariaDB and restored root access via unix_socket authentication; published the app to GitHub with full README, install guide, and API reference.

Full-Stack Engineer — Spare Parts Marketplace Platform (Multi-tenant B2C) *2026*

NestJS · TypeScript · PostgreSQL · Prisma · Next.js · React · Redis/BullMQ · WebSockets · Flutter

- Architected and built a modular-monolith backend (NestJS, Clean Architecture/DDD, PostgreSQL/Prisma) with strict domain boundaries (domain/application/infrastructure/presentation per module) and an anti-corruption layer isolating all optional third-party integrations (payments, ERP, WhatsApp) so the core system runs fully independent of any external service.
- Designed and implemented a ledger-first financial system: append-only wallet and inventory ledgers as the single source of truth, a rule-based commission engine (per-category/brand/store fee scoping), an auditable multi-state withdrawal workflow, and automated invoice generation with sequential numbering and QR-based pickup verification.
- Built a full order lifecycle state machine (merchant confirmation → payment → fulfillment → pickup) with automated timeout/expiration handling, dispute resolution workflow, and partial/full refund processing with credit-note generation.
- Delivered a ranked, cross-merchant product search engine (canonical-part deduplication across sellers, vehicle-fitment filtering, faceted search) plus a recommendation layer (frequently-bought-together, alternative/cross-reference parts) driven by real purchase-history analytics computed via a scheduled batch job.
- Shipped three production-facing admin/merchant/customer web dashboards (Next.js) sharing a common design-system package, each with real-time updates (WebSocket) for order status, wallet balance, and merchant notifications.
- Established data-integrity tooling (automated consistency-check and idempotent repair scripts) to continuously validate that cached balances/stock/invoices reconcile against their ledgers of record — a practice applied throughout the project's lifecycle rather than as an afterthought.

SELECTED PROJECTS

Souqi — E-commerce Platform (Graduation Project) *Flutter · Firebase*

- Architected a full-scale e-commerce solution with product listings, cart, and store management; led a team to deliver modular, well-documented code.

MessageMe — Real-Time Chat Application *Flutter · Firestore · GetX*

- Built a high-performance messaging system using Firestore Streams for instant updates, secure Firebase Auth, and user-presence tracking with a responsive UI.

Offline-First Task Manager *Flutter · Sqflite · Firestore*

- Developed an offline-capable task app with a custom synchronization engine that reconciles local SQLite data with Firestore once connectivity is restored.

EDUCATION

Bachelor of Computer Science — Taiz University *2023 / 2024*

CERTIFICATIONS

- Networking — Routing & Switching, Network Design (Certified) · Google Digital Marketing Certificate
- Edraak — ICDL, Excel, Word, English Skills · SoloLearn — Kotlin, Java, C++

Soft Skills: Team Leadership · Complex Problem Solving · Effective Communication · Time Management · Ownership & Accountability