Aamir Hussain

Senior Full-Stack & Mobile Engineer · Node.js · React · Flutter · Laravel · Go

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SUMMARY

I build products end to end: Flutter apps, Node.js, Laravel and Go backends, React front ends, and the Linux servers they run on. Over 15 years I've shipped software for hotels, telecoms, retailers and manufacturers. Today I lead development of FWD, a social networking app, where I also built its analytics and attribution stack, from the event contract to the dashboards the founders use. I keep 4+ hours of overlap with US or European teams.

SELECTED PROJECTS

FWD: social networking app · Lead Developer

2025 – Present

Flutter (iOS/Android), Node.js/Express, PostgreSQL, AWS, GA4, BigQuery, Branch.io

- **Analytics & tracking:** Built a typed event layer in which 298 events are generated from one contract, and release builds fail if tracking lints don't pass. Events go server-side through the GA4 Measurement Protocol and are mirrored to PostgreSQL. A nightly job compares PostgreSQL, GA4 and BigQuery and flags drift. Removed double counts caused by retries and race conditions, and cut 30+ dead events.
- **Growth reporting:** Built the API behind the founders' analytics dashboard: registration funnel and drop-off, D1–D60 retention curves, invite and intro funnels, messaging and engagement metrics.
- **Attribution:** Branch.io deep links with link-level attribution and invite chains, iOS uninstall detection via silent push, and email delivery tracking through Brevo webhooks.
- **Product & messaging:** Group chat, circles and intros, voice onboarding, Agora calling with CallKit, Slack and WhatsApp contact import, and an offline cache with optimistic updates. One dispatch service routes all SMS and WhatsApp traffic, and iOS invites work without SMS permissions via an Apple Shortcuts round trip.
- **Quality:** Wrote 2,392 Maestro end-to-end flows and ~6,400 commits across app and API in 12 months, working with the founders and an engineering agency in Ukraine.

MAGNA Rewards: retail loyalty platform on POS terminals · Lead Development Engineer

2025 – Present

Go (chi), APISIX, PostgreSQL, Valkey, RabbitMQ, React, Android (Kotlin/Compose), Docker, Headwind MDM

- Lead development of a loyalty platform for merchants in Jamaica and Trinidad. Cashiers look up members, earn and redeem points, validate vouchers, void sales and settle at end of day, against an external loyalty engine. The Go backend sits behind an API gateway that checks HMAC-signed POS requests.
- Took the platform from mock data to live: real back-office sign-in with server-side sessions, live transactions and reports, and terminal activation (terminal ID, supervisor code and terminal password).
- Built the terminal fleet layer: a foreground heartbeat that survives Android's Doze mode and reports status, battery and GPS; security events and lockouts; and settings changes recorded in the audit log.
- Integrated Headwind MDM end to end. Each terminal enrols as a managed device in merchant and store groups, with QR enrollment, a kiosk configuration and staged app releases (pilot stores, then all stores).
- Built the staging and client UAT environments, wrote the deployment runbook, wrote a 102-check end-to-end suite, and shipped POS releases 4.3.1–4.3.3.

TrukPlan: multi-tenant trucking dispatch SaaS · Platform Architect & Engineer

2025 – Present

Laravel 13, Next.js 14, MySQL, FastAPI (Python), GitHub Actions, cPanel

- Set up the platform foundations: the monorepo, the per-customer architecture (each carrier gets its own repo, subdomains, database, AI service and crons) and the CI/CD pipeline, alongside a second developer who built most of the dispatch modules (loads, trips, billing, payroll).
- Built the provisioning portal: a resumable 17-step pipeline that rebrands the code, creates the repo, DNS and database, generates config, pushes and waits for CI, migrates, creates the admin account and emails credentials. Customers can be suspended and resumed from the portal.
- Built cross-tenant driver sign-in for the mobile app: one login finds the driver's company, issues RS256 JWTs scoped to that tenant with rotating refresh tokens, and revokes live tokens when a driver is removed.

ERP suite for manufacturing and trading · Engineering Consultant

2025 – Present

Laravel 11, Livewire 3, Alpine, Tailwind, MySQL, dompdf, Excel

- **GoldenSand, paint manufacturer:** A full ERP covering purchasing and goods received, sales and deliveries, receivables with payment allocation, banking and expenses, gate passes and warehouses. Production runs from versioned recipes scaled to batch size, with expected yield and density checks, batch stages (issue, lab, receipt), filling bulk paint into pack sizes, and wastage tracking. Includes profit and margin reports, 25 PDF documents and 16 Excel exports.

- **AutomationMasters, trading company:** A fork re-shaped for trading, with feature flags: quotation-to-invoice flow, a single ledger per party, configurable tax, serial-number tracking, landed cost, cash limits and per-staff rights. Bill adjustment settles a party's sales against its purchases without moving money.
- **CPM:** double-entry accounting with multi-currency ledgers.
- About 900 automated feature tests across the two ERPs, including end-to-end and full-cycle reconciliation tests.

S-Tel: in-room guest platform for Serena Hotels · Lead Developer 2017 – 2025

Android (Java), Laravel, MySQL, Python, Opera PMS

- In-room Android devices in kiosk mode, running at 5 hotels (Serena Islamabad, Peshawar, Faisalabad, Quetta and Royal Swiss) for 7+ years. Guests can call the front desk, limo or other rooms, message staff, request checkout, browse promotions and nearby places, and use the device as a Wi-Fi hotspot. A companion staff app handles room calls and messages.
- Check-in and check-out sync from Opera PMS: first from file drops, then, after Opera moved to Oracle Cloud, from scheduled reports read over IMAP.
- Laravel portals for each hotel, with Python jobs for device location, geofencing, app-version tracking, usage reports, and alerts when a device is undocked or stops reporting.
- Two-way MySQL replication between the hotels and a central cloud hub, with odd/even auto-increment keys to prevent collisions and a replication check. Upgraded all servers to Ubuntu 24.04 and fixed the findings of a security assessment (VAPT): outdated SSH and JS libraries, and a cleaned-up web root.

Enterprise systems · Lead Developer 2017 – 2025

PHP/Laravel, MySQL

- CRM, ERP, inventory and HR systems for **Telenor, Nestlé, Wi-Tribe and Nayatel**, with payment, SMS, email and ERP integrations.
- A complaint management system for **Friends Home**, a nationwide electronics retail chain, handling 100+ cases a day with SLA-based escalation and role-based dashboards.

Infrastructure & DevOps · Across all projects 2017 – Present

AWS, Google Cloud, Linux (Ubuntu/Debian), Docker Compose, nginx, GitHub Actions, MySQL/PostgreSQL

- **Servers:** Run a shared Ubuntu VPS with 10+ production apps and a cPanel/WHM server for UK client sites. MAGNA runs on Docker Compose (Go services, APISIX, PostgreSQL, Valkey, RabbitMQ) behind an nginx SNI router, deployed into a client network over a jump host and VPN. Covers hardening, firewalls, TLS automation and 14-day nightly backups.
- **CI/CD:** GitHub Actions deploys each TrukPlan tenant over restricted SSH keys. The deploy script won't swap releases if the database is down, and snapshots it before migrations. FWD runs on AWS Elastic Beanstalk and S3, with analytics in Google Cloud (BigQuery, Firebase).
- **Incident response:** Cleaned and rebuilt a compromised WordPress site (backdoored plugin), removed a hidden backdoor cron job, and traced a server-wide outage to a theme exhausting Apache's worker pool.

EMPLOYMENT

Lead Developer, FWD, remote — Nov 2025 – Present

Lead Development Engineer, Axiom Dynamics (PY Tech), remote — 2025 – Present

Engineering Consultant (part-time), Corespl and PCM Plus — 2025 – Present

Lead Developer, Wrollit, Islamabad / Dubai. Led a team of about 25 — Aug 2017 – 2025

Senior Software Engineer, Digify, Rawalpindi — Jun 2016 – Aug 2017

Web Developer, Freelance, alongside my degree — 2009 – 2016

SKILLS

Languages	TypeScript, JavaScript, Dart, PHP, Go, Kotlin, SQL
Backend	Node.js (Express), Laravel, Go, REST, JWT/OAuth, RabbitMQ, Redis/Valkey, queue workers
Frontend & mobile	React, Next.js, Vue, Flutter (iOS/Android), native Android
Data & analytics	PostgreSQL, MySQL, MongoDB, Redis, GA4, BigQuery, Branch.io
Cloud & DevOps	AWS (EC2, S3, RDS, Lambda, Elastic Beanstalk), Google Cloud (BigQuery, Firebase), Docker Compose, nginx, APISIX, GitHub Actions, Linux, cPanel/WHM, MDM
Testing	Maestro E2E, Flutter tests, Jest, Vitest, Go tests

EDUCATION

BS Software Engineering, Preston University — 2016