

Muhammad Saad Shafiq

Senior Full Stack Engineer

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PROFESSIONAL SUMMARY

Full stack engineer who builds payments- and identity-heavy products end to end, where money and regulation make the work hard. In production: a school payments platform live in Saudi Arabia, a toll system at a US-Canada border crossing, a licensed US sportsbook, and a four-service gym platform built solo in Flutter, FastAPI and Next.js. Works in Python, TypeScript, React, Laravel and Node, on Postgres and MySQL, with Docker and CI/CD around them. Founding member of an AI platform for construction bidding and now leads its frontend and backend with a team of five.

SKILLS

Backend: Python, FastAPI, Django, Node.js, Express, Laravel/PHP, REST APIs, GraphQL

Payments and Identity: Stripe, Apple In-App Purchase, Telr, KYC verification, Geofencing, Palm-vein biometrics

Frontend: TypeScript, React, Next.js, Tailwind CSS, deck.gl, MapLibre

Mobile: Flutter, Dart, Android (Java/Kotlin), Clean Architecture, BLoC, Unit and Golden Testing, SQLite

Cloud and DevOps: Docker, AWS (EC2, S3), GCP, GitHub Actions, CI/CD, Datadog

Data and Automation: PostgreSQL, MySQL, MongoDB, Redis, Celery, Playwright

PROFESSIONAL EXPERIENCE

INDUS Technologies

Lahore, Pakistan

Senior Full Stack Engineer

Jan 2026 – Present

- Founding member of DiPGOS, sole developer for its first two months and now leading frontend and backend platform work with a team of five. It is an AI platform that takes civil-construction tenders from automated bid design through to progress and supply-chain control on site. Past pilot with two engineering contractors, and in pilot with Pakistan's water and power authority ahead of RCC pouring at the Diamer-Bhasha Dam.
- Lead the backend behind DiPGOS's bid pipeline. It reads an incoming tender, extracts its requirements and maps them onto six engineering disciplines for engineer approval. The platform then composes a work breakdown and turns it into a schedule, a cost model and an exportable proposal, with human approval gates at every stage.
- Sole author of DiPGOS's document intelligence layer. It classifies every file in a tender package by title and type, then chunks each one according to what it actually is: prose, spreadsheets, and drawings read by an LLM. Chunks are embedded with 384-dimension MiniLM-L6 into a pgvector store that the platform's AI assistant queries.
- Built DiPGOS's visualisation layer in React and TypeScript. It renders site geometry and progress over 3D geospatial maps with deck.gl and MapLibre, next to Gantt schedules and earned-value charts.

Omnisoft

Lahore, Pakistan

Full Stack Mobile App Developer

Aug 2024 – Jan 2026

- Sole developer on the two-app toll system for the Ambassador Bridge, the Detroit-Windsor commercial crossing. One app gives vehicle owners a digital wallet and geo-fenced automatic toll payment. The other handles vehicle classification, ticketing, live signboard integration and gate automation for plaza staff over real-time sockets. Delivered to pilot, and in use at the crossing.
- Built an aesthetic-medicine marketplace for a French client that connects patients with practitioners. It has AI-assisted filtering, swipeable practitioner cards, appointment booking and subscriptions billed through Stripe and Apple, over an Express and MongoDB API.
- Debugged and stabilised the Django backend of a live cryptocurrency mining and airdrop platform. The work spanned Celery task queues, WebSocket real-time updates and Postgres read/write splitting.

- Took over an existing location-based social discovery app, re-architected it and shipped version two, which added hobby and preference matching to the swipe-based discovery flow.

Zentech Solutions

Lahore, Pakistan

Full Stack Mobile App Developer

Jul 2023 – Aug 2024

- Architected a school payments platform that pairs a Laravel backend with Flutter apps for parents and cafeterias. It covers virtual student wallets, QR and palm-vein purchases, parent-controlled child accounts and Telr gateway integration, and runs live across 5+ schools and 10+ canteens with 500+ app users. Took over implementation and ongoing delivery when the original developer left.
- Worked pre-launch on a licensed US sportsbook for the regulated Tennessee market. The app ran on the Kambi sportsbook platform and had geofenced play boundaries and KYC onboarding. Implemented features and wrote the unit and golden test suites that covered them.
- Integrated a palm-vein biometric SDK into Android enrolment and point-of-sale scanner applications through native libraries. Children pay at cafeteria tills with no card that can be lost or stolen and no PIN to remember. Those two failure modes made every other payment method unworkable for young pupils.
- Built and operated 25+ production scrapers across e-commerce, property, travel and recruitment sources in Python (aiohttp, Selenium, BeautifulSoup) for a US data client. Throughput held at 50,000 property listings per eight-hour run and 8,000 review pages in under ten minutes. Deployed them on GCP and AWS, and routed the output into BigQuery and Cloud Storage.

New Elevation

Lahore, Pakistan

Software Engineer

Feb 2023 – Jul 2023

- Supported an Oracle ATG e-commerce platform. Diagnosed backend log errors and corrected file formatting so seller data ingested cleanly.
- Wrote SQL to extract and deliver requested datasets for operational reporting. Audited deletion requests by cloning production to staging, then verified record integrity before any data was removed.

PROJECTS

- **DiPGOS**. AI platform taking a civil-construction tender from bid design through to on-site delivery control, built so contractors can retrieve and reuse their own past project data. Past pilot with two engineering contractors and in pilot with Pakistan's WAPDA for the Diamer-Bhasha Dam.
- **Enteyoes**. Gym management platform in production for a fitness club in Lahore. Four services built solo: Flutter member app, FastAPI backend, Next.js admin console, and an OCR service that reads ID cards and receipts so members finish sign-up from home instead of filling in forms at the desk.
- **Schoollet**. School payments platform live in Saudi Arabia, serving pupils, parents and canteen staff across web and mobile.

EDUCATION

National University of Computer and Emerging Sciences (FAST-NUCES)

Bachelor of Science in Computer Science

Lahore, Pakistan | 2019 – 2023