

IMRAN ANSARI

Senior Full-Stack Engineer · Agentic AI & Geospatial Platforms

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SUMMARY

Full-Stack Engineer with 4+ years shipping production platforms across React 19, TypeScript, and Python (FastAPI). Recent focus: **agentic AI assistants** — LLM tool-calling, schema-grounded SQL generation, in-browser Pyodide for live data analysis, and multi-agent skill orchestration. Earlier work in 3D geospatial visualisation (Deck.gl, Google Maps Platform), dataset ingestion pipelines, and GCP Cloud Run deployments.

SKILLS

AI / Agentic: LLM tool-calling, function calling, schema-grounded (RAG-style) SQL generation, agent skill orchestration, in-browser Pyodide for sandboxed analysis, multi-turn chat sessions, prompt engineering

Languages: JavaScript, TypeScript, Python, SQL, HTML, CSS

Frontend: React 19, Next.js, Vinxi, Vite, Redux, Zustand, TanStack Query, Deck.gl, Tailwind CSS, MUI

Backend: FastAPI, Node.js, REST APIs, GraphQL

Databases & Data: PostgreSQL, PostGIS, TimescaleDB, ClickHouse, Google BigQuery, Iceberg, Trino, Kafka, Redis, Supabase

Cloud & DevOps: Google Cloud Platform (Cloud Run, BigQuery, Cloud Build, Secret Manager, Maps APIs), Docker, Docker Compose, Ansible, Traefik, CI/CD, Vercel

Testing & Monitoring: Playwright (visual regression, real-API E2E), Jest, OpenTelemetry, Google Analytics, Firebase Cloud Messaging

PROFESSIONAL EXPERIENCE

Lepton Software

Gurgaon, India

Software Engineer (SDE-2)

June 2024 – Present

- **SmartMarket Platform — Frontend lead** (smartmarket.rio.software) — Led the frontend rewrite of SmartMarket.ai onto a Rio.js extension monorepo; shipped the new Datasets, Connections, and Agentic AI Assistant modules.
- **Built an LLM-powered agentic geospatial assistant on the client:** tool-calling for map rendering & dataset selection, schema-grounded (RAG-style) prompting against `per-dataset_info.json`, and in-browser **Pyodide** for sandboxed data analysis on user uploads.
- Datasets and Connections UI surface across Postgres, BigQuery, S3, Kafka and HTTP — connector wizards, schema-driven credential forms with preserved field order, pre-flight connection-staleness gating, and import-wizard recovery paths.
- Frontend production hardening — build-id version banner, skew-protection middleware, headless print pipeline for PDF reports.
- Authored a real-API Playwright trust suite (vs. staging, fails-loud in CI) that surfaced a backend connection-rename durability defect and produced the diagnostic the BE team used for the fix; pioneered Playwright visual regression testing.
- **Google RMI (Roads Management Insights) Demo** — Production traffic intelligence platform on React 19, FastAPI, BigQuery and Deck.gl: dual-map weekday/weekend comparison, time-replay, congestion heatmaps, and route reliability metrics (PTI, TTI, 95th-percentile travel times). Deployed to Cloud Run with blue/green releases. Open-sourced under `googlemaps-samples/roads-management-insights-samples`.
- **Route Registration Tool** (open-source: `googlemaps-samples/roads-management-insights-samples`) — Road-selection companion app for Google's RMI program. React + Google Maps JS frontend; FastAPI backend syncing selections to BigQuery; ADC-based Roads API authentication; Cloud Run liveness/readiness probes.

Innostax Software Labs Pvt. Ltd.

Gurgaon, India

Project Lead

August 2021 – June 2024

- **ShipStation — Web Shipping Platform** (Node.js, REST/SOAP APIs, Jest, Mocha): Integrated 15+ modules with +40% API performance and -20% iteration cycles. Led a team of 7 and onboarded 5+ engineers.
- **PlentiExchange — 1031 Exchange Report Generator** (React, Node.js, .NET, MongoDB, Azure DevOps): Cut report generation time 25% and signup setup 40%; referral integration drove +30% engagement and +20% business.
- **Morehands Mobile App** (Ionic, Salesforce, Firebase): Led a team of four on full-stack iOS/Android delivery. Cut load times 30%, boosted engagement 50%, reduced crash reports 15%; integrated Google Analytics, Gladly, and FCM.

PERSONAL PROJECTS

- **slack-claude-bridge** (npm: `@imran-ansari/slack-claude-bridge`) — Self-hosted Slack ↔ Claude Code bridge: drive Claude on your laptop from Slack on your phone. Two modes: one-shot mentions and a Conductor session mirror via Stop hook, replies feed back via `claude -p ---resume`. Node.js, TypeScript, Slack Socket Mode.
- **stockpe** — Inventory + billing MVP for a friend's small electronics shop in India. Barcode scan, CSV import, simple bills — replaces Excel + WhatsApp. Next.js 16, React 19, Tailwind, shadcn/ui, Supabase, html5-qrcode; deployed on Vercel.
- **vibin.click** — Spotify-Jam-style realtime YouTube listening party: host plays audio, guests queue and skip with realtime sync. Next.js, Supabase (Postgres + RLS + Realtime), Google OAuth, YouTube Data API v3 + IFrame API; iOS-friendly PWA on Vercel.

Education: B.Tech, University College of Engineering and Technology (VBU), Hazaribagh, Jharkhand — 2021, CGPA 7.59. | **Languages:** English, Hindi.