

DIVYAM SINGH

Software Development Engineer

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Backend and infrastructure engineer focused on distributed systems (Kafka-driven pipelines, caching layers, idempotent and fault-tolerant services), with hands-on production experience shipping AWS infrastructure and CI/CD.

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, Go, Java, Python, SQL

Backend & APIs: Node.js, Express.js, NestJS, FastAPI, Axum, Hono, REST APIs, WebSockets

Distributed Systems: Kafka, Redis, BullMQ, Prometheus

Databases: PostgreSQL, MongoDB, Prisma

Frontend & Cloud: React, Next.js, React Native, Tailwind CSS, Docker, Kubernetes, AWS, Cloudflare, Linux

PROJECTS

Kaizen | Smart Contract Monitoring Tool 🔗

Node.js, Kafka, Redis, TimescaleDB, Docker

- Built a Node.js monitoring pipeline that ingests live block and mempool events across multiple EVM networks over WebSockets, normalizing contract activity into time-series records in TimescaleDB.
- Used Kafka to decouple continuous event ingestion from downstream processing, so live network listeners aren't slowed down by database writes or fraud-scoring latency.
- Added a Redis caching layer over contract and transaction lookups, cutting down redundant database hits on repeated fraud-check queries.
- Wrote a Solidity circuit-breaker contract that pauses monitored activity on its own when the pipeline flags suspicious behavior.
- Containerized the full service mesh with Docker and added logging and health checks for reproducible local orchestration and quicker failure diagnosis.

Syndic | Cross-Border Payments Platform 🔗

Node.js, Redis, BullMQ, PostgreSQL, Rust, Solana

- Built the backend for a cross-border remittance prototype, covering transfer creation, asynchronous processing, settlement routing, and end-to-end transaction-state tracking.
- Queued transfer jobs through Redis and BullMQ with controlled retry policies, keeping API request handling separate from longer-running settlement execution.
- Designed routing logic that checks live fee and liquidity signals to pick the lowest-cost settlement path in real time.
- Prototyped parallel settlement across multiple wallets and wrote Rust/Anchor programs on Solana for low-fee, fast-finality transfers.
- Modeled transactions in PostgreSQL with idempotent writes, so retried jobs never create duplicate transfer records.

Ageis | Agricultural Traceability App 🔗

React Native, Express.js, PostgreSQL, Prisma, Solana

- Built two React Native/Expo apps for farmer and delivery workflows on top of a shared Express and TypeScript API.
- Designed a Created → Verified → Shipped → Delivered traceability pipeline linking NFC-tagged produce to on-chain Solana records and PostgreSQL state.
- Built a minting pipeline that batch-generates keypairs and metadata, submits Solana transactions, and reconciles the resulting address against each product.
- Modeled users, farmers, products, and orders with Prisma and exposed REST endpoints for product creation, verification, ordering, and delivery updates.
- Deployed the API behind a multi-stage Docker build with an NGINX reverse proxy, HTTPS termination, and PM2 process management.

ACHIEVEMENTS

- 8× Hackathon Builder, Web3 & AI**
Finalist at **ETH Mumbai 2026** (Top 200 of 3,000+ applicants), **Hackverse 2025** (Top 15 of 200+ teams), **Hack2Crack 2.0**, and **Quasar 3.0**; Semi-finalist at **BuildWithIndia**; also took part in 3 other national-level events, shipping a full-stack prototype under 36-hour constraints each time.
- 300+ DSA Problems Solved** across LeetCode, HackerRank, CodeChef, and GeeksforGeeks ([profile](#))
- Joint Technical Head, Technova Club (2024–2025)**
Owned the club's technical roadmap, ran internal build sessions, and put 40+ members through structured hackathon prep.

EDUCATION

University of Mumbai
B.E. in Computer Engineering

November 2022 – May 2026
Mumbai, India