

Hitesh Goel

UAE (GMT+4:00) • hiteshgoel.afs@gmail.com • linkedin.com/in/hiteshgoelafs • github.com/mannutech • hitesh-goel.com

Senior Backend Engineer with 9+ years across Web3, DeFi, and fintech. I build blockchain data pipelines, exchange backends, wallet systems, and L1/L2 infrastructure, owning verticals end to end from schema to production. Primary stack is TypeScript/Node.js with ClickHouse, Postgres, Redis, Kafka, and AWS/GCP. Known for event-driven systems, multi-chain integrations, and turning messy on-chain data into reliable, high-throughput products.

PROFESSIONAL EXPERIENCE

Moralis

Senior Software Engineer

Abu Dhabi, UAE
Feb 2026 – Present

- Built the PnL v2 wallet-profitability engine end to end (Weighted-Average Cost, ROI, unrealized PnL, win-rate) on a CQRS architecture over ClickHouse, with multi-token filtering in a single query.
- Delivered full Bitcoin support via a Blockbook integration layer with a multi-tier Redis cache using block-depth-aware TTLs (up to a 374x latency improvement), plus the production observability that diagnosed a post-launch cache-silence incident.
- Built unified multi-chain Wallet History across EVM, Bitcoin, and Solana, adding per-transfer-leg balance deltas, spam-exclusion filtering, and a parallelized envelope-batch fetch that eliminated single-chain timeouts.
- Migrated NFT Trades (reorg-safe history-projection writer) off a legacy DynamoDB service and Token Holder analytics (11 EVM chains) into a shared CQRS platform, validated with a prod-vs-local parity harness.
- Cut an 8-second gateway-SLA timeout on hot-token top-traders queries by fixing a ClickHouse sort-key / access-pattern mismatch with a lightweight secondary-index projection, no schema rewrite or storage increase.
- Standardized per-chain distributed tracing (one shared OpenTelemetry interceptor) and drove infrastructure cost governance, quantifying 25-40% recoverable compute spend across a ~1,600-pod fleet.
- Built internal AI engineering tooling: a Grafana MCP server, code-review agents with persistent memory, an automated post-session reviewer, and GitLab CLI write-hooks; owned deployment across beta and prod via Helm + ArgoCD.

Tech: TypeScript (strict), NestJS, Node.js, ClickHouse, TimescaleDB, Redis, Blockbook, CoinGecko, OpenTelemetry, Grafana/PromQL, EVM + Solana + Bitcoin, Helm, ArgoCD, Kubernetes, GitLab CI, MCP/AI tooling.

mTransform

Consultant

Abu Dhabi, UAE
Oct 2025 – Jan 2026

- Built a real-time, bidirectional swap platform for direct exchange between real-world-asset (RWA) tokens and stablecoins, with automatic on-chain settlement at live market prices.
- Designed the pricing engine: scheduled jobs aggregating crypto rates (CoinGecko), on-chain metal prices (Chainlink oracles), and MetalsAPI, feeding both live charts and swap quotes.
- Integrated custody and on-chain settlement via Fireblocks with BullMQ-based idempotent, retryable settlement; integrated KYC (Sumsu) and wallet screening (Elliptic). Delivered across client RWA projects including Doma.

Gelato Network

Senior Software Engineer (Rollup-as-a-Service)

Remote
May 2024 – Aug 2025

- Architected and shipped the flagship one-click L2 rollup deployment pipeline (OP Stack, Arbitrum Orbit, Avalanche L1): auto-funding via Gelato Web3 Functions, dynamic Kubernetes tenant provisioning, DNS validation, and integrated Prometheus/Grafana monitoring, turning a manual multi-step process into a self-service API call.
- Led a modular integration-framework refactor enabling type-safe addition of Decent Bridge, Hyperlane, and Vercel Bridge-UI integrations without touching core orchestration.
- Built a payment-failure recovery system (grace periods, RPC key states, Stripe meter reconciliation) that closed a revenue-leakage gap, and a BullMQ QueueManager that eliminated race conditions in concurrent deployments.
- Owned Infrastructure-as-Code (Octopus Deploy) across 3+ Kubernetes clusters, migrated 75+ secrets to Azure Key Vault, and built high-performance metrics ingestion on Pub/Sub, BullMQ, and TimescaleDB.

Tech: TypeScript, Node.js, Go, PostgreSQL, TimescaleDB, Redis, BullMQ, GCP Pub/Sub, Ethers.js, Stripe, Kubernetes, Helm, Octopus Deploy, Datadog, GitHub Actions, Azure Key Vault.

Bake

Senior Backend Engineer

Singapore
Mar 2023 – Nov 2023

- Led a legacy KYC migration, moving 200,000+ customer records between real-time distributed databases with event-driven sync (Kafka, Node.js, Postgres).
- Built Stripe on-ramp and subscription modules for automated financial onboarding, driving over \$400K in revenue; launched travel-rule compliance integrations (Coinbase TRUST, Notabene).

Crypto.com

Blockchain Engineer

Singapore
Jul 2020 – Jan 2023

- Architected scalability for the Cronos EVM L1 using ZK and Optimistic rollups; ran EVM benchmarking and node-client strategies in Rust and GoLang for distributed-network performance.
- Built backend services for NFT asset management on IPFS, the Minted Launchpad marketplace, and blockchain explorer indexing; contributed to the Crypto.com DeFi Desktop Wallet and Cronos Chain JS SDK.
- Shipped Solidity contracts for batch transfers and ERC20-to-Cosmos migration; automated APIs, event processing, and indexing with TypeScript, NestJS, Node.js, and Postgres on Docker CI/CD.

Tech: TypeScript, NestJS, Node.js, Solidity, Truffle, Hardhat, web3.js, Electron, Postgres, AWS (SQS), Infura, IPFS, Docker, Grafana.

JPMorgan Chase & Co.

Associate, Blockchain Engineering

Singapore
Dec 2019 – Jul 2020

- Designed and implemented upgradeable Solidity smart contracts on Quorum for enterprise use cases (Onyx); architected the initial External Wallet Transaction management system within strict financial-compliance frameworks.
- Integrated enterprise Apache Kafka with HTTP gateway APIs and secure key-management; delivered full-stack APIs with React.js, Node.js, Springboot Java, MySQL, and web3.js.

PLMP Fintech Pte Ltd

Software Engineer, Blockchain

Central Singapore
Jul 2018 – Dec 2019

- Led technical architecture for a cryptocurrency exchange backend (KYC/AML compliance, secure transaction flows); delivered an end-to-end custodial mobile wallet with full-node monitoring for BTC, LTC, and ZCash.
- Architected end-to-end crypto HD wallet integration (Node.js, Fastify.js, Web3.js, Bitcoinjs-lib, Bull.js) with AWS (KMS, RDS, EC2, IAM, S3, ElastiCache) and Apache Kafka.

ZebPay

Blockchain Engineer

India
Jun 2017 – Jul 2018

- Built exchange customer risk-scoring with Chainalysis; ran the full lifecycle of blockchain nodes (XRP, BTC, BCH, ETH, ERC20) and secure HD/multi-signature wallet infrastructure.
- Built on-chain data parsing and indexing pipelines with Node.js, Apache Kafka, Streamsets, and ZMQ; integrated AWS, Azure, and Firebase.

PayIO Mobile Solutions

Co-Founder & Head of Engineering

Greater Noida, India
Jul 2015 – Jul 2017

- Designed, built, and launched a mobile wallet platform from scratch (Laravel PHP, AWS EC2) with an Android app, secure backend APIs, and robust transaction processing; owned the full SDLC across cross-functional teams.

EDUCATION

Dr. APJ Abdul Kalam Technical University, UP, India — Bachelor of Engineering (BE), Computer Science

SKILLS

Languages: TypeScript, Node.js, JavaScript, Go, Python, Solidity, SQL, Bash

Backend & Architecture: Event-Driven Architecture, CQRS, Microservices, REST, GraphQL, OpenAPI, NestJS, Fastify, Distributed Systems, API Design, Domain-Driven Design, AI Workflows

Data & Streaming: ClickHouse, PostgreSQL, TimescaleDB, MySQL, MongoDB, Redis, Apache Kafka, Google Pub/Sub, BullMQ

Cloud & DevOps: AWS (KMS, RDS, EC2, IAM, S3, SQS, ElastiCache), GCP (GKE, Pub/Sub), Azure Key Vault, Kubernetes, Helm, ArgoCD, Octopus Deploy, Docker, CI/CD

Web3: EVM, Ethereum, Solana, Bitcoin, Solidity Smart Contracts, web3.js / Ethers.js, Truffle, Hardhat, ZK & Optimistic Rollups, L2 Rollup-as-a-Service, HD Wallets, IPFS / Infura, Blockchain Indexing, Cross-Chain Bridges

Observability & Tooling: Grafana, Prometheus, Datadog, Jest, GitLab/GitHub CI; open-source: Cronos Chain JS SDK, ContextSpin