

Atul Jha

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EDUCATION

Chandigarh University

Bachelor of Engineering in Computer Science

Punjab, India

Aug 2022 – May 2026

PROJECTS

LedgerPay | TypeScript, Node.js, PostgreSQL, Redis, Docker

[GitHub](#) | [Live Link](#)

- * Engineered a fintech wallet with double-entry accounting and PostgreSQL row-level locking — zero double-spends under concurrent load.
- * Built Redis-based idempotency middleware that guarantees exactly-once processing, making every transfer safe to retry.
- * Designed ACID-compliant transaction flows with Prisma ensuring funds are never lost or duplicated on failure.
- * Implemented immutable refund logic using reversal ledger entries instead of edits — full audit trail preserved.

Hermes | TypeScript, Node.js, PostgreSQL, Redis, BullMQ, Docker

[GitHub](#) | [Live Link](#)

- * Built a webhook delivery system inspired by Stripe/Razorpay — reliably delivers HTTP events to merchant endpoints with HMAC-SHA256 payload signing.
- * Implemented exponential backoff retry logic (5 attempts: immediate → 1m → 5m → 30m → 2h) with every attempt persisted in PostgreSQL as a full audit trail.
- * Designed a Dead Letter Queue for permanently failed events with a requeue API to retry once the underlying issue is fixed.

NeuralProxy | TypeScript, Node.js, PostgreSQL, Redis, BullMQ, Docker

[GitHub](#) | [Live Link](#)

- * Built an LLM gateway that abstracts OpenAI, Gemini, and Groq behind one API — automatic failover kicks in the moment a provider goes down.
- * Implemented SHA-256 prompt caching in Redis — identical prompts return cached responses at \$0 cost, skipping the LLM call entirely.
- * Enforced per-key sliding window rate limiting using Redis sorted sets — prevents burst abuse at window boundaries unlike fixed window counters.

All three projects are deployed on DigitalOcean VPS with Nginx reverse proxy and SSL termination — live API docs linked above.

EXPERIENCE

Blockchain Developer Trainee

June 2024 – Sept 2024

Metacrafters

Remote

- * Developed and deployed Solidity smart contracts on EVM-based networks.
- * Worked on transaction lifecycle, gas optimization, and decentralized application architecture.
- * Conducted vulnerability assessments on smart contracts to mitigate risks like reentrancy attacks and ensure secure state transitions.
- * Integrated blockchain networks with off-chain backend services to enable real-time event listening and data synchronization.

TECHNICAL SKILLS

Languages: JavaScript (ES6+), TypeScript, SQL (PostgreSQL), HTML/CSS

Frameworks & Libraries: Node.js, Express.js, Prisma,

Developer Tools: Git, Docker, Nginx, VS Code, Postman

Infrastructure & DevOps: Docker Compose, Redis, BullMQ, Message Queues, Cloud Deployment (DigitalOcean)

APIs & Services: REST APIs, JWT, Rate Limiting, Google Generative AI, OpenAI API, Webhooks