

Gaurav Mehta

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Work Experience

Software Engineer, Backend and Mobile | Alcovia Jun 2026 - Present

- Re-architected a Node.js, Express, and Prisma backend into a strict layered design, extracting raw database access out of 220 services into 91 typed repositories to stop schema changes from breaking unrelated modules at runtime.
- Made an in-app currency and rewards ledger safe under concurrency by collapsing balance check and debit into one atomic transaction with row-level locking, and enforcing a unique idempotency key per reward grant, preventing negative balances and double credits on retried or concurrent requests.
- Fixed API-wide slowdowns from connection-pool exhaustion caused by 54 background cron jobs, moving them onto a dedicated connection pool and adding guards so a slow job cannot start again before the previous run finishes.
- Established a single validated API contract across backend and mobile: Zod validation on 110 of 206 mutating endpoints behind one typed response envelope, consumed through a runtime-parsed client boundary in a React Native and Expo app that previously cast unchecked JSON into UI.
- Built the testing and type-safety foundation from near-zero: 1,900 unit tests across backend and mobile with dependency-mocked repositories, gated in CI behind typecheck, lint, and test on every pull request.

Full-Stack Intern | Second Brain Labs Nov 2025 - Dec 2025

- Built an AI-driven campaign generation pipeline using LinkedIn data, Apify APIs, and LLMs to automate personalized outreach and improve campaign quality.
- Developed scalable REST APIs for campaign management and LLM-assisted personalization workflows, reducing manual effort across outreach and user lifecycle operations.

Software Engineering Intern | Trading Studio Apr 2025 - Aug 2025

- Optimized PostgreSQL queries and database indexing, reducing core analytics response times from 3 seconds to under 500ms while improving platform scalability.
- Built an automated testing framework that increased code coverage from 40% to 85%, significantly reducing production bugs and improving release reliability.
- Developed a self-service query management platform for non-technical users and delivered 60+ production features by integrating backend services into a unified data pipeline.

Projects

InstantPay, Payment Wallet github.com/gaurav-mehta19/InstantPay
TypeScript, Node.js, PostgreSQL, Prisma, Docker instant-pay-user-app.vercel.app

- Built a modular fintech monorepo with layered architecture, improving scalability, maintainability, and separation of business logic.
- Designed secure payment processing with HMAC webhook verification, idempotency checks, and transaction state management to ensure reliable financial operations.
- Implemented robust transaction validation using integer-based money representation, eliminating precision errors and improving system correctness.
- Automated CI/CD pipelines with GitHub Actions and Docker for reliable deployments, while improving frontend performance through route-level code splitting.

Technical Skills

Languages: TypeScript, JavaScript, Python, Go, C++, SQL

Frameworks and Libraries: Node.js, Express, Hono, React, Next.js, React Native (Expo), Prisma, TanStack Query, Zustand, Zod, Jest, Tailwind CSS

Tools and Infrastructure: PostgreSQL, Redis, Docker, AWS (EC2, S3), Cloudflare Workers, Nginx, Linux, Turborepo, Git, GitHub Actions, CI/CD

Concepts: REST API Design, System Design, Data Structures and Algorithms, Database Indexing, Concurrency Control, Message Queues, Rate Limiting, Caching, Unit Testing

AI and Automation: LLM Integration, Prompt Engineering, AI Workflow Design

Education

JSS Academy of Technical Education, Noida (JSSATE) Nov 2022 - Jun 2026
Bachelor of Technology (B.Tech), Information Technology, GPA: 8.12/10.0