

# Yashraj Yadav

Full-Stack Developer

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## Summary

Full-stack developer building scalable, production-grade systems with TypeScript, Next.js, and PostgreSQL. Focused on AI-integrated pipelines, financial/transactional backends, and low-latency real-time applications.

## Experience

### Fullstack Developer Intern

### OpenLabs Solutions

*Next.js, TypeScript, Prisma, Redux Toolkit, PostgreSQL, Turborepo*

Jun 2026 – Sep 2026

- Shipped **21 merged pull requests** on Snap-Form, an AI-powered form builder, across frontend, backend, and shared packages in a Turborepo monorepo.
- Integrated the **OpenRouter SDK** to build an **AI form-generation pipeline**, parsing and validating LLM outputs into structured schemas.
- Built a **form builder Redux slice** featuring **undo/redo state history** and conversation-based **FormVersion tracking**.
- Designed **REST APIs** for dashboards, templates, analytics, Google Sheets sync, and CSV exports with strict **Zod validation**.
- Authored **integration test suites** and set up monorepo infrastructure packages (**@repo/db**, **@repo/types**, Tailwind v4 + shadcn/ui).

## Skills

**Frontend & Backend:** React.js, Next.js, Node.js, Express.js, Socket.io, REST APIs, TypeScript, JavaScript, Tailwind CSS, Framer Motion

**AI & LLMs:** Gemini API, Vercel AI SDK, LangGraph, LangChain, RAG, OpenAI, Anthropic

**Databases & Tools:** PostgreSQL, MongoDB, SQLite, Drizzle ORM, Prisma, Git, GitHub, Turborepo, Vercel, Bun

## Projects

### Zeno Bank (Banking Ledger)

GitHub | Live

*Next.js, TypeScript, PostgreSQL, Drizzle ORM*

- Architected a **double-entry ledger system** enforcing strict debit/credit invariants for financial correctness.
- Designed **atomic SQL transaction workflows** with rollback safety, guaranteeing consistency under concurrent load.
- Implemented **idempotency keys** to eliminate duplicate requests and mitigate double-spend race conditions.
- Derived account balances from immutable ledger entries (no stored state), ensuring complete **auditability and tamper resistance**.
- Validated ledger correctness against **100+ simulated concurrent transactions**.

### Private Rooms — Ephemeral Chat

GitHub | Live

*Next.js, TypeScript, Socket.io, WebSockets*

- Engineered a **WebSocket real-time messaging system** achieving sub-100ms message delivery latency.
- Designed an **ephemeral lifecycle engine** with automated room teardown (creation → expiry → memory cleanup).
- Enabled zero-friction anonymous messaging via **short-lived room access codes**.
- Built **rate limiting and connection throttling** to guard against socket flood attacks and stabilize resource utilization.

### SQL AI Agent

GitHub | Live

*Next.js, TypeScript, Gemini API, SQLite*

- Built a **natural language → SQL execution engine** enabling intuitive queries over relational databases.
- Engineered **schema-aware prompt pipelines** ensuring contextually valid SQL generation against dynamic table structures.
- Implemented **defensive safety guardrails** (read-only query restrictions and validation AST checks) preventing destructive queries.