

Tejas Nasa

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PROFILE

Full Stack Developer focused on backend systems and real-time architectures, with experience building scalable collaborative platforms, AI-powered code analysis tools, and high-performance APIs.

TECHNICAL SKILLS

- **Languages:** JavaScript, TypeScript, Python, HTML5, CSS3, SQL
- **Backend:** Node.js, Express.js, FastAPI, Socket.io, Yjs (CRDTs), Celery, Supabase, Firebase, BetterAuth, Zod
- **Frontend:** React.js, Next.js, TanStack Query, Tanstack Router, Redux, Zustand, Tailwind CSS, Recharts
- **DevOps & Tooling:** Git, GitHub, Turborepo, Postman, ESLint, Docker, Nginx, Digital Ocean, Vercel
- **Database:** PostgreSQL, MongoDB, Redis, pgvector, Prisma, Drizzle, SQLAlchemy, Alembic

PROJECTS

Illume - AI-Powered Codebase Onboarding Platform

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

FastAPI, Next.js, Postgres, SQLAlchemy, pgvector, Tree-sitter, Celery, React Force Graph

- Engineered a topological learning engine using FastAPI and Tree-sitter, executing Kahn's algorithm across parsed AST dependency graphs to generate customized codebase reading paths for 500+ files.
- Architected a multi-source RAG pipeline utilizing Celery, vectorizing 5,000+ Git commits, pull requests, and semantic code nodes into pgvector to answer deep architectural queries without hallucination.
- Built an interactive Next.js 15 onboarding dashboard, visualizing 1,200+ node architectures in 3D while instantly identifying critical file bus-factors and streaming real-time ingestion telemetry via WebSockets.
- Deployed the backend to a DigitalOcean droplet via a Docker + GitHub Actions CI/CD pipeline, with Nginx handling SSL termination and WebSocket upgrades.

Nimbus - Real Time Collaborative Workspace

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

Node.js, Socket.io, Redis, Postgres, Yjs, Next.js, Excalidraw, Express, Prisma, Turborepo

- Architected a horizontally scalable WebSocket microservice using Node.js and Socket.io, integrating a Redis Pub/Sub adapter to concurrently handle 1,000+ state broadcasts/min with sub-millisecond latency
- Implemented a CRDT engine with Yjs, resolving multi-client document merges by securely broadcasting incremental binary state updates and eliminating 90% of state-syncing conflicts.
- Built a monorepo-based collaborative workspace in Next.js supporting 5+ concurrent editors, orchestrating real-time rich-text (Milkdown), infinite canvas (Excalidraw), and an embedded AI assistant within a unified Turborepo pipeline.

Echoes - Social Media Platform

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

Express, Node.js, React, Tanstack Router, Postgres, Drizzle, Tailwind, Tanstack Query

- Engineered a scalable REST API using Express and Node.js, leveraging PostgreSQL alongside Drizzle ORM to deterministically resolve and return complex post records with optimized joins and indexing.
- Built a secure JWT authentication pipeline with bcrypt hashing, enforcing strict boundary-layer validation via Zod across 35+ endpoints and automating content compliance via separate event-driven GPT-5 moderation triggers.
- Developed a high-performance React SPA using TanStack Router, leveraging TanStack Query's aggressive caching strategies to reduce redundant API calls by 50% and deliver instant UI feedback.

EDUCATION

Bachelor of Technology in Information Technology

2023 – 2027

Maharaja Surajmal Institute of Technology, Delhi