

Vipin Tiwari

Full-Stack Developer | Self-Taught | Open to Entry-Level Roles
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Professional Summary

Self-taught Full-Stack Developer with strong fundamentals in Next.js, TypeScript, and tRPC. Built and deployed 4 production-grade web applications serving real users, demonstrating ability to deliver end-to-end solutions. Seeking entry-level role to contribute modern web development skills while learning from experienced engineers.

Key Strengths: Full-stack development, Modern React ecosystem, API design, Database optimization, Self-learning ability

Technical Skills

Frontend: React.js, Next.js 14, TypeScript, Tailwind CSS, Shadcn UI

Backend: Node.js, tRPC, REST APIs, Prisma ORM

Databases: PostgreSQL, MongoDB, MySQL

Tools & Services: Git, Docker, Vercel, Appwrite, Pusher (WebSockets)

Core: JavaScript (ES6+), HTML5, CSS3, Responsive Design, Real-time Systems

Personal Projects

APLICA | Github – AI-Powered Job Search Platform

Tech Stack: T3 Stack (Next.js, tRPC, Prisma), NextAuth, PostgreSQL, cloud.sambanova.ai

- Engineered semantic job search using AI embeddings, improving match relevance by 40% based on user feedback.
- Implemented secure OAuth authentication (Google, Email) using NextAuth with session management.
- Optimized PostgreSQL queries with Prisma ORM, reducing average API response time from 800ms to 560ms.
- Built responsive UI handling 1000+ job listings with infinite scroll and debounced search.

Music-Raze | GitHub – Real-Time Collaborative Music Streaming

Tech Stack: Next.js, Prisma, PostgreSQL, TanStack Query, Spotify Web API, Pusher

- Architected WebSocket-based music synchronization supporting 50+ concurrent users per room with <100ms latency.
- Integrated Spotify Web API with OAuth 2.0 flow for secure music streaming and playlist management.
- Implemented role-based access control (host/listener) with real-time state management using Pusher.
- Built optimistic UI updates to handle race conditions in concurrent playback controls.
- Challenge Solved: Synchronized playback across multiple clients despite network delays using timestamp-based coordination.

Key Learning: Mastered WebSocket communication, real-time state synchronization, and concurrent user management.

Store-it | Github – Cloud File Storage Platform

Tech Stack: Next.js, Appwrite, Tailwind CSS

- Developed secure file upload system with MIME-type validation for images, videos, and documents.
- Implemented dynamic file previews and a responsive dashboard with drag-and-drop upload.
- Reduced average upload time by 25% and handled files up to 50MB with chunked upload.
- Challenge Solved: Handled large file uploads efficiently with progress tracking.

Key Learning: File handling, BaaS integration, and UX optimization.

Finance-Manager | Github – Budget Tracking Dashboard

Tech Stack: Next.js, MongoDB, TanStack Query, Chart.js

- Built financial tracking system for income, expenses, and loans with dynamic data visualizations.
- Implemented CRUD APIs and MongoDB aggregation for real-time analytics.
- Optimized state management with TanStack Query, improving data refresh by 35%.

Key Learning: Data visualization, state management, and analytics dashboard development.

Education

Bachelor of Science — Expected Dec 2025

Indira Gandhi National Open University (IGNOU), Delhi

High School (Science Stream with Mathematics) — 2021

Geeta Sr. Sec. School No. 2, Delhi

Achievements & Certifications

- Self-Taught Developer: Learned modern web development independently through online resources.
- 100% Deployment Rate: All 4 projects deployed to production and actively maintained.

Languages

English: Professional working proficiency

Hindi: Native speaker