

Dhruva Singh Chauhan

Full-Stack Software Engineer

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Full-stack software engineer with 2+ years of production MERN experience. Shipped real-time AI-driven features with SSE and vector embeddings, pulled API latency from 60s+ to ~12s on a 60M-record platform, and engineered systems handling 80,000+ daily API calls. Comfortable across Next.js, Node.js, TypeScript, PostgreSQL, Redis, and GraphQL — currently extending into GenAI engineering and independent product work.

EXPERIENCE

Software Engineer — Digimantra Labs

October 2023 – February 2026

Mohali, Punjab · Shipped across four named products and 8+ team projects

SourceForceAI — AI-powered supplier discovery platform (60M+ records)

- Architected the entire frontend and optimized backend APIs for a supplier discovery platform serving a 60M-record dataset. **Reduced API response times from 60s+ to ~12s — an 80% latency improvement** — through Redis caching, database indexing, and query restructuring.
- Implemented Server-Sent Events for real-time AI data streaming and integrated Firebase vector embeddings for AI-powered supplier retrieval.
- Optimized backend throughput with Node.js cluster mode and Redis, reliably handling **80,000+ API calls per day**.

Stack — Next.js, Node.js, TypeScript, Firebase, Redis, SSE

MathLadder AI — Adaptive learning platform (solo build)

- Built the **entire platform end-to-end** — frontend, backend, database schema, and adaptive question engine — as sole developer, collaborating directly with the CEO on architecture and feature planning.
- Engineered a real-time adaptive Q&A system that dynamically adjusts question selection across chapters, difficulty tiers (L1–L4), and marks weightage during live tests.
- Wrote Jest unit tests for critical API endpoints and React components; owned deploys, monitoring, and production bug triage.

Stack — Next.js, Node.js, TypeScript, PostgreSQL, Jest

EarthLink — Enterprise APIs for US-based ISP

- Built and maintained **GraphQL APIs serving live enterprise-scale traffic** for one of the largest US internet service providers. Delivered full frontend implementations alongside REST and GraphQL endpoints with secure authentication and resilient error handling.

Stack — Next.js, Node.js, TypeScript, GraphQL, REST

EvilGeniusGames — Performance rebuild & SEO optimization

- Improved **Lighthouse performance from ~42 to 80+** and achieved a perfect SEO score of 100 via code splitting, lazy loading, image optimization, and semantic HTML. Built a custom print/download system with dynamic font scaling inside PDF containers — no truncation, no overflow.

Stack — Next.js, TypeScript

Independent Software Development

March 2026 – Present

Gurgaon, Haryana · Self-directed full-stack and AI engineering work

- Building full-stack web applications with **Next.js 15+, React 19, Hono, PostgreSQL (Drizzle ORM), Redis, and Cloudflare R2**; auth, caching, and CI/CD wired end-to-end. Extending into GenAI engineering — LLM APIs, embeddings, RAG, and tool calling in Node.js/TypeScript.

SKILLS

Frontend — React.js, Next.js (SSR/SSG/ISR), TypeScript, JavaScript (ES6+), Tailwind CSS, Redux, Zustand, TanStack Query

Backend — Node.js, Express.js, Hono, GraphQL, REST APIs, WebSockets, SSE, Node.js cluster mode

Databases — PostgreSQL, MongoDB, Firebase, Redis, Drizzle ORM

DevOps & Tools — Docker, Git/GitHub/GitLab, Jenkins, CI/CD, Vercel, Railway, AWS, Cloudflare R2

AI / GenAI — LLM APIs, embeddings, RAG, tool calling, agentic patterns (Node.js/TypeScript)

EDUCATION & RECOGNITION

B.Tech, Computer Science & Engineering · Lovely Professional University · GPA 8.0/10 July 2024

Rising Star Award (2024) — Digimantra Labs. Recognized for technical contributions and growth within the first year.