

Debarjun Thakur

Frontend Developer | AI Systems Builder

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Summary

Frontend developer and AI systems builder with **3+ years of experience** shipping production-grade web products with React, Next.js, and TypeScript. Builds AI-powered developer tools including CLI assistants, federated search engines, and code generators using LLMs, RAG pipelines, and modern AI APIs. Smart India Hackathon 2023 runner-up among **100,000+ teams**.

Core Skills

Frontend: React, Next.js, TypeScript, JavaScript, Vite, Tailwind CSS, HTML5, CSS3, Responsive Design, React Native, Flutter

Backend & APIs: Node.js, FastAPI, REST APIs, SSR, JWT Authentication, MongoDB, SQLite, SSE

AI / ML: LLM APIs, Groq API, LangChain, Hugging Face Transformers, RAG, LoRA/PEFT, Unsloth, TRL, AI Agents

Performance & Infrastructure: Technical SEO, Core Web Vitals, Vercel, AWS, Cloudflare, Docker, Jenkins, GitHub Actions

UI / Motion: Figma, Framer Motion, GSAP, Lenis

Professional Experience

Raen AI, Dubai

May 2024 – Present

Frontend Developer

- Own the React, TypeScript, and Next.js frontend stack across marketing pages, product interfaces, and internal platforms.
- Drove technical SEO across metadata, semantic hierarchy, and indexing strategy, taking the brand's primary keyword to **#1 on Google**.
- Improved Core Web Vitals through frontend loading, rendering, and asset optimization across production interfaces.
- Led frontend development for web portals and product interfaces, implementing authentication flows and real-time data experiences used by clients daily.

Self-employed

2023 – May 2024

Freelance Software Developer

- Delivered end-to-end web and software projects for private businesses and NGOs, managing concurrent client codebases from scoping through handoff.
- Built and shipped production applications across React, Next.js, REST APIs, and MongoDB while handling client requirements, implementation, deployment, and handoff.

Projects

Cairn – Federated Dataset, Model, Paper & Code Search Engine *Next.js, TypeScript, SQLite, SSE, Groq*

- Built a federated search engine that fans a single query across **8 sources** in parallel, including Hugging Face, arXiv, GitHub, and Kaggle.
- Streamed ranked results live through SSE with a transparent **0–100 reproducibility score** and a hand-implemented TF-IDF relevance model.

Tornado – Local-First Torrent Search Client

Node.js 22, TypeScript, Ink + React TUI, WebTorrent

- Built a terminal-native search client federating **10+ sources** with per-source fault isolation and no account, cloud, or telemetry requirements.
- Implemented a persistent download manager with queueing, resume support, and SQLite-backed crash recovery.

GitGud – Synthetic GitHub Contribution History Generator

Node.js, Groq API, GitHub REST API

- Built a developer tool that generates realistic, backdated commit histories and repository structures using Groq-powered LLM inference.
- Automated repository updates through the GitHub REST API.

Education

Asansol Engineering College

2022 – 2026

B.Tech, Computer Science and Engineering

AI & Machine Learning Specialization

Achievements

- Smart India Hackathon 2023 – Runner-Up** among **100,000+ teams**.
- AI Unite Hackathon 2023 – Top 5 nationally**, awarded a Master's scholarship.
- Hardware Model Making 2024 – Winner**, plus **10+ additional competition wins**.
- Led an open-source student developer community for **3+ years**.