

GOPAL CHOUDHARY

Raipur, Chhattisgarh, India 491001

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Summary

Full-Stack AI Engineer skilled in React, Node.js, TypeScript, LLM integrations, RAG pipelines, and AI agents; experienced in building scalable, production-ready systems with PostgreSQL, Docker, AWS, and CI/CD.

Experience

Texture Pharma

July 2026 – Present

Freelance Frontend Developer

Remote

- Developing a full multi-page corporate website for a pharmaceutical company using Next.js, React, and TypeScript, including dynamic product listing pages.
- Architecting the site's routing and content structure across About, Divisions, Careers, Contact, and dynamic Product detail pages.
- Establishing the visual design system and component structure for consistent UI across all page templates.
- Collaborating directly with the client to translate business requirements into a responsive, SEO-optimized web presence.

IIIT Naya Raipur

May 2025 – July 2025

AI/ML Trainee

Naya Raipur, Chhattisgarh

- Built an end-to-end Crop Recommendation system, training a classification model on agricultural datasets and deploying it via a React-based web interface.
- Integrated the trained ML model into a production-style API, enabling real-time inference and prediction serving through the web interface.

Projects

Studybook-LM | Turborepo, Next.js, Express, tRPC, Inngest, PostgreSQL, Pinecone, Clerk, Prisma

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- Built a RAG ingestion pipeline for multi-page PDFs, web scrapes, and YouTube transcripts using token-aware chunking, reducing search time by 70%.
- Integrated OpenAI embeddings into workspace-isolated Pinecone namespaces for sub-second, tenant-isolated semantic retrieval.
- Engineered a real-time streaming chat pipeline (Vercel AI SDK, SSE) with agentic web search tool-calling (Tavily), Mem0 memory, and inline citation mapping.
- Built an event-driven Inngest pipeline decoupling document parsing, vectorization, and summarization to eliminate serverless timeouts.

CoolCode - CLI Agent | OpenTUI, Hono, PostgreSQL, Prisma, Clerk

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- Architected a distributed AI coding agent streaming LLM function calls from a cloud API to run file edits, indexing, and shell commands in a sandboxed local environment.
- Built a dual-mode (Plan/Build) guardrail system enforcing read-only analysis before mutations, preventing hallucinated edits via bidirectional permission checks and path-traversal safeguards.
- Designed a session/routing pipeline for multi-turn persistence, multi-model orchestration, and real-time per-token usage metering.

Deckly - AI Pitch Deck | Next.js, Inngest, PostgreSQL, TanStack Query, Clerk

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- Architected an autonomous agentic workflow with schema enforcement and a two-tier guardrail (validation + LLM-as-judge) to eliminate hallucinations in investor-grade pitch decks.
- Built a resilient event-driven pipeline for multimodal generation—prompt synthesis, image generation, CDN ingestion—with atomic state transitions and fault-tolerant error handling.
- Developed an interactive workspace with lifecycle-aware polling and optimistic updates, plus server-side rendering engines exporting decks as native files and vector PDFs.

Technical Skills

Languages: TypeScript, JavaScript, Java, Python

Frontend: Next.js, React, Zustand, TanStack Query

Backend: Node.js, WebSockets, Inngest, tRPC, Turborepo

Databases & ORM: MongoDB, PostgreSQL, Pinecone, Redis, Prisma, Drizzle

Cloud & Devops: Docker, AWS, VPS, CI/CD

GenAI: Prompting, RAG, Agent SDK, MCP, Skill, LangGraph, Realtime voice agents

Education

Chhattisgarh Swami Vivekanand Technical University

BIT Durg | Oct 2022 – June 2026

Bachelor of Technology in Electronics and Telecommunication

CPI: 7.9