

KSHITIJ INGALE

Fullstack AI Engineer

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PROFESSIONAL SUMMARY

Full-stack developer with 2+ years of experience shipping production web applications using the MERN stack, Next.js, and TypeScript — now focused on GenAI engineering. Designed and built end-to-end **RAG pipelines** (chunking, embeddings, vector search, grounded and cited generation) with **LangChain**, **OpenAI**, and **Qdrant**, including LearnForge, a self-hosted study notebook that turns PDFs, web pages, and video transcripts into cited, chat-ready knowledge bases. Proficient in leveraging AI-assisted development tools (Cursor, Claude, ChatGPT) to accelerate delivery, cut debugging time, and maintain high code quality. Seeking a full-time **AI / GenAI software engineering role** to build impactful, retrieval-grounded products within a collaborative team.

EXPERIENCE

Freelance Software Developer

Dec 2023 – Present

Self-Employed • Remote

- Built and deployed a production-ready **React/Next.js** web app for a client, achieving a **40% improvement** in Core Web Vitals scores and organic search traffic.
- Used **Cursor**, **Claude**, and **ChatGPT** across the workflow to accelerate feature delivery, automate boilerplate, and tighten code-review cycles — cutting overall development time by an estimated **30%**.
- Implemented SEO best practices — structured data markup, meta-tag optimization, image-compression pipelines — and delivered ahead of schedule via weekly client feedback loops, resulting in zero post-launch rework.
- Designed fully responsive UI components with Tailwind CSS, ensuring a consistent cross-browser and cross-device experience.

SDE Intern

Nov 2020 – May 2021

Alfred Technologies • Remote

- Designed and built **10+ RESTful APIs** in Node.js and MongoDB for a language-learning platform, supporting JWT authentication with refresh-token rotation and user progress tracking.
- Implemented the **Leitner spaced-repetition algorithm** on the backend, improving user retention and learning outcomes for the platform's quiz system.
- Built a React.js admin panel for moderators and a quiz portal for end users, reducing manual content-management time by an estimated **30%**.

PROJECTS

LearnForge — AI-Powered RAG Study Notebook

Next.js • TypeScript • Neon PostgreSQL • Drizzle ORM • Qdrant • OpenAI API • LangChain • Firecrawl • Tavily

Live: learnforge-prod.vercel.app GitHub: github.com/kshitiingale/Learnforge

- Built a self-hosted, NotebookLM-style study notebook where users collect PDFs, web pages, YouTube transcripts, and pasted text in a workspace, then chat with them and get grounded, source-cited answers.
- Designed the end-to-end **RAG pipeline**: content extraction, ~800-character chunking with LangChain, OpenAI embeddings, and per-user **Qdrant** vector collections filtered by workspace for isolated, low-latency retrieval.
- Implemented streaming chat with clickable inline citations linking back to the exact source excerpt (PDF page, video timestamp, or URL), plus an optional live web-search fallback via the Tavily API.
- Built a Studio module that auto-generates summaries, mind maps, quizzes, and flashcards from indexed sources; added rate limiting, SSRF protection, and per-route ownership checks, with JWT/OAuth (Google, GitHub) auth.

FitAI — AI-Powered Fitness Coach SaaS

Next.js 14 • TypeScript • PostgreSQL • Prisma ORM • Groq API • NextAuth.js • Tailwind CSS • Jest

Live: fitai-app-coach.vercel.app GitHub: github.com/kshitiingale/FitAI

- Built a full-stack fitness-tracking SaaS where users log workouts, track strength progress, and auto-detect personal records, all stored in PostgreSQL via Prisma ORM.
- Integrated the **Groq LLM API** with streaming responses to power a real-time AI coach that ingests a user's full training history and delivers personalized programs, macro estimates from plain-text meals, and weekly progress reviews.
- Implemented end-to-end type safety with TypeScript and Zod-validated API schemas; wrote Jest unit tests for core business logic (volume calculation, PR detection) with GitHub Actions CI on every push.

TECHNICAL SKILLS

Frontend: React.js, Next.js, TypeScript, JavaScript (ES6+), Tailwind CSS, Redux, Material UI

Backend: Node.js, Express.js, REST APIs, JWT Auth, Socket.IO, Prisma ORM, Drizzle ORM, Zod

GenAI & RAG: RAG Pipelines, LangChain, OpenAI API, Groq API, Anthropic API, Vector Search (Qdrant), Embeddings, Prompt Engineering, Firecrawl, Tavily

Databases: PostgreSQL (Neon), MongoDB, Qdrant

Testing & Platforms: Jest, ts-jest, GitHub Actions, Git, GitHub, Postman, Vercel, Supabase, Render

Languages & AI Tools: JavaScript, TypeScript, Java, C/C++ — Cursor, Claude AI, ChatGPT (AI-assisted dev)

EDUCATION

B.E. in Computer Science and Engineering — Nagpur University (Aggregate: 80%)

Aug 2018 – Jul 2022

CERTIFICATIONS

Full Stack JavaScript Web Developer — iNeuron (Feb – Nov 2023)

Complete Git and GitHub Course — LearnCodeOnline (Jul – Aug 2022)