

Rupak Sapkota

Full-Stack Software Engineer

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SUMMARY

Full-stack software engineer in Lalitpur, Nepal, building production web applications with React, Next.js, TypeScript, Node.js and NestJS. I work across interfaces, APIs, data and deployment, and integrate AI where it serves the product, from retrieval over learning content to support-ticket triage.

EXPERIENCE

Sponsorvista

Frontend Developer · Part-time

Aug 2025 – Jun 2026

Amsterdam, Netherlands · Remote

- Led frontend development on a three-person team building a multi-tenant sponsorship management platform, owning navigation architecture, dashboard UX, frontend performance and code review.
- Moved data loading to server-side rendering in Next.js, removing a full-page loader that blocked the interface on every refresh.
- Restructured a codebase weighed down by unmanaged packages into separate API, hook and UI layers, moving data fetching to TanStack Query and reducing the bundle.
- Built deal-management views with infinite scrolling, bulk actions and server-side prefetching.
- Set up GitHub Actions CI/CD and added telemetry, API error tracking and Web Vitals monitoring for production.

Stack: Next.js, React, TypeScript, TanStack Query, Zustand, Storybook, Jest, Docker, GitHub Actions

Compfeed

Full-Stack Engineer · Contract

Sep 2024 – Jan 2026

Amsterdam, Netherlands · Remote

Joined as Backend Engineer; full-stack from June 2025.

- Migrated the existing Express.js backend to NestJS alongside ongoing feature work, making backend functionality easier to extend, and worked on Docker-based deployment workflows.
- Built Playground and Manifest features and component dashboard functionality in Next.js, React and TypeScript, coordinating collaborative editing with changing workflow data.
- Built a custom Figma MCP integration and AI-assisted documentation that turns linked design context into first drafts for people to review and refine.
- Implemented rate-limit-aware background synchronization and retry handling for the Figma integration, and took over maintenance of the Figma widget and its data flows.
- Built a support-ticket triage service with NestJS, LangChain and OpenAI that classifies and filters incoming user issues before they reach the team.

Stack: Next.js, React, TypeScript, NestJS, Express.js, PostgreSQL, Redis, Firebase, WebSockets, Figma API, MCP, LangChain, OpenAI, Pinecone, Docker, GCP

Case study: sapkotarupak.com.np/work/compfeed

Amoeba Labs

Technical Feasibility Tester · Part-time

Mar 2024 – Aug 2024

Kathmandu, Nepal · Remote

- Assessed designs for four client projects against engineering constraints before handoff, flagging what would be costly, risky or impractical to build.
- Introduced a structured feasibility review between design and development, giving developers clearer handoffs and reducing rework.

Braimy

Full-Stack Developer

Sep 2022 – Aug 2024
Kathmandu, Nepal · Onsite

- Built the initial React web application, admin tools and NestJS backend, working alongside the legacy Express API on MongoDB, then continued development as the team grew to five developers.
- Built and ran the knowledge-base service behind Big-B, the platform's AI assistant: deduplicating and splitting learning material, retrieving relevant passages for Gemini, and delivering answers through Bull and Redis background jobs and Socket.IO.
- Built semantic search with Gemini embeddings and MongoDB Atlas Vector Search, image-to-question search with Mathpix OCR, and ranking that normalizes mathematical notation.
- Built a Lexical-based editor for mathematical notation, images, tables and code, and admin tools to flag and correct AI answers.
- Owned forums, notifications and real-time updates, plus deployment and monitoring with Docker, PM2 and GitHub Actions.

Stack: React, TypeScript, Lexical, NestJS, Express.js, MongoDB, Redis, Bull, Socket.IO, Gemini, Docker

Case study: sapkotarupak.com.np/work/braimy

Scholarsspace

Junior Full-Stack Developer

Jan 2021 – Feb 2022
Kathmandu, Nepal · Onsite

- Built course discovery, discussion threads and progress tracking in React, backed by Node.js and Express REST endpoints for content delivery and activity tracking.
- Fixed bugs and took part in code reviews and sprint planning with senior engineers.

Stack: React, Node.js, Express.js

SELECTED WORK

Compfeed: sapkotarupak.com.np/work/compfeed

Design-system contribution workflows across Figma and the web: collaborative editing, background sync and AI-assisted documentation.

Braimy: sapkotarupak.com.np/work/braimy

An AI-assisted learning platform for students in Nepal: math authoring, semantic and image search, and retrieval-backed answers.

SKILLS

Frontend	React, Next.js (App Router, SSR), TypeScript, JavaScript, TanStack Query, Zustand, Lexical, Storybook, Tailwind CSS
Backend & APIs	Node.js, NestJS, Express.js, REST API design, WebSockets and Socket.IO, background jobs (Bull)
Databases & Caching	PostgreSQL, MongoDB, Redis, Firebase
Applied AI	OpenAI API, Gemini, LangChain, retrieval-augmented generation (RAG), vector search (MongoDB Atlas, Pinecone), MCP
Testing & Infrastructure	Jest, React Testing Library, GitHub Actions, Docker, PM2, Google Cloud Platform, Web Vitals and error monitoring

EDUCATION

Diploma in Information Technology

Nepal Banepa Polytechnic Institute

2018 – 2022
Kavrepalanchowk, Nepal