

Yachu Raja Joshi

Fullstack JavaScript Developer

📍 Kathmandu, Nepal ✉ yachujoshi1234@gmail.com ☎ +977-9843263930 in Yachu Joshi 🌐 Yachu Joshi

Profile

Proactive and impact-driven Software Engineer with 4+ years of experience in the software development industry, bringing broad full-stack expertise and a strong track record of delivering scalable, high-quality solutions through technical excellence, cross-functional collaboration, and end-to-end ownership.

Technical Skills

- **Languages:** JavaScript, TypeScript, Python, SQL, HTML/CSS
- **Frameworks & Libraries:** React, Next.js, Redux, SASS, Tailwind, Node.js, Express.js, NestJS, Jest, Vitest, Cypress
- **Databases:** PostgreSQL, MySQL, Azure CosmosDB, Amazon Neptune, Redis, TypeORM, Prisma
- **Testing:** Unit, Integration, E2E (Jest, Vitest, Cypress)
- **DevOps & Cloud:** Docker, GitHub Actions, AWS
- **Tools:** Git, GitHub, GitLab, Figma

Experience

Senior Software Engineer

June 2023 - Present

Leapfrog Technology [🔗](#)

Kathmandu

- **Led fullstack development** of high-impact platforms, delivering scalable, performant solutions across domains like ISP analytics, ERP systems, and gamified engagement tools.
- **Architected infrastructure solutions** involving caching, rate limiting, authentication, and data modeling to optimize performance and system reliability.
- **Cultivated engineering excellence** by mentoring peers, leading knowledge-sharing sessions, conducting thoughtful code reviews, and reinforcing best practices across teams.

Software Engineer

August 2022 - June 2023

VAR X

Kathmandu

- **Delivered end-to-end web features** across frontend and backend, from development through deployment, ensuring performance, stability, maintainability, and production readiness.
- **Collaborated with designers and stakeholders** to translate product requirements into robust, scalable technical solutions while maintaining a high-quality user experience.

Projects

Bespin — Leapfrog Technology

Fullstack Software Engineer

A graph database with a web interface that visualizes the relationships between ISPs, their network partners, CDNs, and geographic service areas by integrating various data sets.

- **Designed and delivered** intuitive user experiences and advanced data visualizations, enabling Amazon to make faster, more informed decisions about global network performance for **Prime Video's live streaming quality**.
- **Spearheaded architectural initiatives** including caching, rate limiting, and geospatial integration to enhance system scalability, resilience, and responsiveness under high-traffic conditions.
- **Led cross-functional knowledge sharing** and contributed to strategic infrastructure planning, fostering technical excellence and accelerating team-wide adoption of best practices.
- **Technologies:** React, React Query, TypeScript, MapBox, NestJS, AWS, Amazon Neptune, Redis

Power Electronics — Leapfrog Technology

Fullstack Software Engineer

Multi-tenant ERP application designed to unify and automate core business workflows, spanning customer management, sales, order, accounting, inventory, production, service and shipping.

- **Led full-cycle development** of a modular, multi-tenant ERP system, integrating CRM, Order, Inventory, Pro-

duction, Accounting, Service, Request and Sales Rep with a strong focus on reusability, security, and performance, streamlining operations and improving process visibility across departments.

- **Collaborated directly with clients and cross-functional teams** during refinement and technical discussions to translate complex business requirements into scalable technical solutions, *balancing simplicity, performance, and rapid delivery*.
- **Established engineering best practices** and introduced project-wide standards, fostering a high-performance culture through quality code reviews, knowledge sharing, collaboration, and quality-focused development.
- **Technologies:** React, React Query, TypeScript, NestJS, PostgreSQL, TypeORM, AWS

PE Transformer [🔗](#) — Leapfrog Technology

Fullstack Software Engineer

Public corporate website for a transformer manufacturer industry, built end-to-end from design handoff to production deployment.

- **Developed the website end-to-end from design handoff to production deployment** and translated visual specs into production-grade code, implementing full on-page SEO across static and dynamic (SSG) routes with the Next.js App Router, Open Graph tags, JSON-LD structured data, auto-generated XML sitemap, and robots.txt.
- **Provisioned and maintained the production environment** on AWS Amplify — authored the build spec with dependency caching, environment variable injection, and artifact configuration — and wired a GitHub Actions CI workflow gating pull requests on a full build check.
- **Technologies:** Next.js, React, TypeScript, Tailwind CSS, GSAP, AWS Amplify

Parking Spot Detection [🔗](#) — Personal Project

Fullstack Software Engineer

Application enabling users to view available parking spaces in real time.

- **Built a geospatial frontend** in React with MapBox, and a PostgreSQL/PostGIS backend for distance and nearest-spot queries.
- **Implemented automatic free-space detection** using Python and OpenCV, integrating a computer-vision component into a full-stack application.
- **Technologies:** React, MapBox, Express.js, PostgreSQL, PostGIS, Python, OpenCV

Super Mario Bros [🔗](#) — VAR X

Frontend Engineer

Classic Platformer inspired by Nintendo's original

- Recreation of the classic Mario game with retro visuals and responsive controls.
- **Developed** game logic and mechanics from scratch using **TypeScript**, delivering a smooth and engaging user experience.
- **Technologies:** TypeScript

Nepal Constitution RAG Chatbot — Personal Project

AI Engineer

Built a conversational **RAG pipeline**: PDF ingestion, recursive chunking (1000/200 overlap), and a Chroma vector store queried via MMR retrieval for diverse, non-redundant context.

- Implemented **history-aware retrieval** that reformulates follow-up questions using conversation context before retrieval runs, with session-based memory via **LangChain's RunnableWithMessageHistory**.
- Deployed as an interactive chat interface (Panel) for live Q&A.
- **Technologies:** Python, LangChain, OpenAI (GPT-3.5, embeddings), ChromaDB, Panel

Education

Pulchowk Campus, Tribhuvan University

Nov 2018

Bachelors in Electronics, Communication and Information Engineering

Certifications

- **AWS Certified Solutions Architect – Associate** [🔗](#)

References

- **Sudhir Shrestha** [🔗](#)
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