

SHEKHAR KUMAR

📍 Ranchi, IN | 📞 +91-840-920-9072 | ✉️ shekharkumar235838@gmail.com | [in LinkedIn](#) | [GitHub](#)

SUMMARY

Senior Software Engineer with 4+ years of experience designing backend-heavy, data-driven platforms using Node.js, NestJS, and PostgreSQL. Experienced in AI-powered systems, experimentation (A/B testing), scalable system architecture, and production-grade web and mobile applications.

WORK EXPERIENCE

Pure Billion Technologies

Mumbai, IN | Remote | Aug 2022 - Present

Software Engineer

- **Designed and owned the backend architecture** of **Ivorie**, a full-stack wedding planning marketplace serving **5k+ users**, using NestJS APIs, Expo React Native, and a Next.js admin dashboard.
- Implemented **real-time chat and notification systems** handling **10k+ messages/day**, along with Stripe payment flows and AWS-based media uploads.
- Defined clear **service boundaries, database schemas, and event-driven async workflows**, enabling scalable growth, reliable data consistency, and low-risk feature iteration.
- Delivered production features for an **Event Management platform (FSAI)**, built with React and Next.js, published on both **Android and iOS**.
- Developed a **product catalog module** for **GiftCash.com**, reducing manual admin operations by **30%**.
- Introduced a **data-driven development approach** by implementing analytics dashboards tracking **20+ product metrics**, enabling informed feature prioritization.
- Implemented **A/B testing and remote configuration**, improving user engagement by **15-20%** based on experiment outcomes.
- Contributed to **weather.com**, running controlled A/B experiments (video duration and layout variants) and optimizing UI performance using analytics-backed decisions.
- Architected **Retrieval-Augmented Generation (RAG)** pipelines using vector databases, improving AI response relevance and accuracy by **25%**.
- Built a **generative AI chatbot** using LangChain with categorized prompts and multiple fine-tuned models, supporting real-time web search via a custom **MCP server**.
- Led development of **Fleet**, an internal AI-driven platform inspired by GitHub and Booking.com, used to validate scalable resource modeling, search, and AI-assisted workflows before production rollout.
- Designed an **LLM-assisted testing strategy** combining user-story-driven test generation, randomized edge-case scenarios, and conventional unit/integration tests, increasing test coverage by **35%**.
- Implemented an **automated multi-tenant migration system**, enabling safe schema and feature propagation with zero downtime.
- Currently experimenting with **diffusion models** and **LoRA-based fine-tuning**.
- **Tech Stack:** TypeScript, Node.js, NestJS, PostgreSQL, Prisma, React, React Native, Expo, Next.js, LangChain, Vector Databases, AWS

Invest With Tribe

Chandigarh, IN | Remote | Feb 2022 - Aug 2022

SDE-1

- Built a **stocks investment platform** enabling experts to publish strategies for retail investors.
- Developed **analytics dashboards and leaderboards** ranking expert performance, used by **1k+ users**.
- Implemented **CronJobs** for live stock price updates and return calculations.
- Integrated **AWS SQS** and **Twilio WhatsApp** notifications for real-time trade and basket updates.
- **Tech Stack:** TypeScript, React, Next.js, Node.js, Express, MongoDB, Redis

EDUCATION

Bachelor of Computer Applications, Techno Main Salt Lake
Senior Secondary School, DAV Gandhinagar CCL

2020 - 2023, Kolkata, IN
Ranchi, IN

SKILLS

- **Languages:** TypeScript, JavaScript, Python, Go, Solidity (basic), C++
- **Backend:** Node.js, NestJS, Express, REST APIs, WebSockets, Prisma
- **Frontend:** React, React Native, Expo, Next.js, TailwindCSS
- **Databases:** PostgreSQL, MongoDB, Redis, DynamoDB
- **AI & Data:** RAG, Vector Databases, LangChain, LangGraph, MCP, LLM Evaluation
- **Cloud & DevOps:** AWS (EC2, S3, SQS), Docker, CI/CD, Git

ACHIEVEMENTS

- EV Charging App recognized among the **Top 30 Startups in India** (Inc42, 2022).
- Mentored **50+ students** in React and React Native development at PrepBytes.