

SHIVANK MATHUR

Senior Fullstack Engineer

Bengaluru, India

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WEBSITES AND SOCIAL LINKS

LinkedIn: [linkedin.com/in/shivank-mathur](https://www.linkedin.com/in/shivank-mathur)

GitHub: github.com/shivumat

Portfolio: <https://www.shivumat.me/>

SUMMARY

Senior Fullstack Engineer with 7+ years of experience building high-performance web applications, scalable APIs, and AI-driven products. Deep expertise in React, Next.js, and Node.js — with a growing specialism in LLM integration, agentic AI, and NLP pipelines. Led engineering pods at New Relic, architected AI-powered product intelligence at Zeda.io, and shipped two live AI products independently. Known for bridging strong product thinking with engineering depth — making tradeoffs explicit, shipping fast, and measuring everything.

EXPERIENCE

❖ Senior Software Engineer, New Relic Feb 2025
Bengaluru, India

Led a 6-engineer pod delivering New Relic Maps — an interactive graph visualisation of 600+ monitored application entities and their service dependencies, enabling reliability engineers to identify cascading failure impact at a glance. Delivered 8 micro front-end applications using Webpack Module Federation, improving platform responsiveness across the New Relic product suite. Architected viewport-based graph virtualisation to maintain 60fps render performance across entity maps with real-time alert state overlays. Implemented force-directed layout with domain-based clustering and critical path highlighting; chose client-side layout to enable instant, zero-latency interactive exploration. Stack: React · TypeScript · Micro Frontends · Module Federation · Graph Visualisation · Node.js

❖ Senior Product Engineer, Zeda.io Mar 2021 — Feb 2025
Bengaluru, India

Architected an AI-powered feedback intelligence system using OpenAI embeddings and DBSCAN clustering — processed 50K+ feedback items with ~87% clustering accuracy, reducing manual triage time by 70%. Integrated LangChain to generate natural-language cluster summaries and actionable insight cards surfaced to product managers; chose DBSCAN over k-means due to irregular cluster density. Upgraded embedding model to OpenAI ada-002 — accuracy jumped from ~72% to ~87%, proving embedding quality outweighs algorithm complexity. Built a Redis-backed queue with exponential backoff for chunked embedding requests — zero API failures in production across 50K items processed. Implemented Core Web Vitals monitoring, code-splitting, and accessibility standards; mentored 3+ junior engineers and established team-wide code review and documentation practices. Stack: React · TypeScript · Python · LangChain · OpenAI · PostgreSQL · pgvector · Redis · Node.js

❖ Associate Technology, Publicis Sapient Oct 2017 — Feb 2021
Gurgaon, India

Developed full-stack solutions with React for interactive financial data interfaces serving enterprise clients across the financial sector. Created data visualisation dashboards presenting complex financial insights to senior stakeholders; contributed to scalable architecture design for data-driven applications. Collaborated with international teams; contributed to ETL pipeline design and data transformation workflows. Stack: React · JavaScript · HTML · CSS · SCSS · Node.js · SQL · Data Visualisation

EDUCATION

❖ The LNM Institute of Information Technology 2013 — 2017
B.Tech., Electrical, Electronics & Communications Engineering