Milan Katira

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Summary

- **Senior Full Stack Engineer** with 4+ years of experience architecting and scaling production systems for **100K+** users across US and Singapore-based startups.
- Specialized in **distributed systems**, high-throughput Node.js backends, and memory-optimized architectures.
- Proven track record of handling **8.7M+** requests in 48 hours and designing $O(1)$ memory-efficient streaming APIs.
- Expert in stabilizing legacy systems under peak load and leading **CI/CD, observability, and technical hiring**.

Work Experience

GoHighLevel | SDE-II   Remote | Sep 2025 – Present

- Handled core media services and communicated cross-functionally to implement a scalable **media service model**, comprehensive **REST API infrastructure**, and seamless **media editor integrations**.
- Eliminated critical Node.js heap exhaustion and OOM errors by implementing **memory profiling** and refactoring payload handlers into **non-blocking streams**, stabilizing the system under peak load.
- Engineered a **multipart stream-based upload API** supporting files up to **500MB** with **constant memory usage**, replacing inefficient buffer-based logic.
- Optimized system throughput via Redis-based caching, intelligent request batching, and distributed rate-limiting.
- Architected a high-reliability Canva integration to ingest large design assets into internal media systems.

InstaService Inc | Senior Software Engineer   Remote (USA) | July 2023 – Sep 2025

- **Architected the frontend ecosystem** from 0 to **12K+ DAU** using React and TypeScript, focusing on modularity and core web vitals.
- Developed a centralized **Design System using Storybook**, standardizing UI components and increasing velocity by **30%**.
- Built fault-tolerant booking and Stripe payment workflows with complex timezone logic, maintaining **99.9% uptime**.
- Orchestrated real-time infrastructure for GPS tracking, chat systems, and dynamic pricing engines.
- Established CI/CD excellence via GitHub Actions and implemented full-stack observability via **PostHog and Sentry**.

Cerebry | Senior Software Engineer   Remote (Singapore) | Feb 2023 – July 2023

- Designed scalable frontend architecture for an AI-powered platform serving **20K+ weekly active users**.
- Optimized UX through advanced data visualization, resulting in a **10% increase** in task completion rates.
- Mentored junior developers and spearheaded technical interview processes to scale the engineering team.

Inara Consultancy Services | Software Engineer   Ahmedabad, India | Oct 2021 – Feb 2023

- Scaled backend infrastructure to process **8.7M API requests in 48 hours** using Node.js and Redis.
- Engineered a real-time interview platform supporting **300+ concurrent video sessions** via Zoom SDKs.
- Reduced server RAM usage to **under 1.2GB** through rigorous resource management and memory profiling.
- Developed and deployed production-grade **Smart Contracts** on Binance Smart Chain and Hedera.

Personal Projects

FeedSpark | Next.js 14, Tailwind, Shadcn, Prisma, MongoDB, Zod   GitHub | Live Demo | 2025

- Developed a performance-focused analytics dashboard using **Next.js Server Components** and **Tailwind CSS** to visualize feedback trends and **NPS scoring**
- Engineered a type-safe data pipeline using **Prisma, MongoDB, and Zod**, ensuring strict runtime schema validation and structured feedback ingestion

Technical Skills

Languages: JavaScript (ES6+), TypeScript, Python, Solidity
Frontend: React, Next.js, Redux, Tailwind CSS, Storybook
Backend: Node.js, Express, NestJS, GraphQL, Redis
Cloud/DevOps: AWS (S3, EC2), Docker, GitHub Actions (CI/CD), PostHog, Sentry

Education

B.E. Mechanical Engineering | VVP College   Rajkot, India | 2018 – 2021
Diploma in Mechanical Engineering | Govt Polytechnic   Porbandar, India | 2015 – 2018