

Siddharth Singh

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Summary

Full Stack Engineer with 2+ years of experience building production-grade applications using **Node.js, TypeScript, React, Next.js, and MySQL**. Experienced in developing real-time systems, designing scalable APIs, and implementing event-driven workflows. Focused on writing maintainable code, optimizing system performance, and delivering reliable solutions from development to deployment.

Work Experience

Full Stack Developer

Jan 2025 – Present

Houston Systems, Greater Noida, India

- Decoupled vehicle movement from financial transactions in a **toll management system** using **Kafka-backed payment queues**, improving system resilience and reducing incident resolution time.
- Built frontend state handling with **Redux and WebSockets** to process high-frequency RFID events without inconsistent UI states across **10+ concurrent toll lanes**.
- Architected and implemented a **multi-zone parking management system** using **React, Redux-Saga, Node.js, Express, MySQL, and WebSockets**, delivering real-time vehicle tracking, occupancy monitoring, and operational visibility across facilities processing **5K+ daily parking transactions**.
- Engineered **Zod-validated REST APIs** and real-time telemetry dashboards for **20+ IoT devices**, supporting fault detection and alarm monitoring.
- Migrated legacy frontend from Bootstrap React to **TypeScript + Vite + Tailwind**, improving LCP and overall page load time by **42%**.

Projects

Votecast

Node.js · TypeScript · Kafka · Zookeeper · PostgreSQL · Prisma · WebSockets · Docker

- Developed an **event-driven vote pipeline** via Kafka, ensuring zero vote loss under server failure with idempotent processing using **producer-stamped UUIDs** and a Postgres unique constraint to handle at-least-once delivery.
- Built a **WebSocket broadcast layer** with per-poll room management, pushing live vote counts to all connected clients within **~50ms** of a DB commit.

DocMind

Node.js · TypeScript · OpenAI API · pgvector · PostgreSQL · Prisma · Docker

- Built a full **RAG ingest pipeline**, PDF parsing, 500-token chunking with overlap, batched OpenAI embeddings, and vector storage in **pgvector**, with cosine similarity retrieval and **streaming SSE generation** that cites exact source chunks.
- Added a **Precision@3 evaluation script** scoring retrieval quality against a test suite, measuring whether the correct chunk appears in the top 3 results across all questions.

Technical Skills

Languages: JavaScript (ES6+), TypeScript, Python

Backend: Node.js, Express.js, REST APIs, WebSockets, JWT, Prisma ORM, GraphQL, Microservices, Rate Limiting

Data & Messaging: MySQL, PostgreSQL, MongoDB, Redis, Kafka, pgvector, Vector Databases

Frontend: React.js, Next.js, Redux Toolkit, Tailwind CSS, Vite

AI & LLMs: OpenAI API, Claude API, LangChain, RAG Pipelines, LLM tool use

DevOps & Tools: Git, Docker, Kubernetes, AWS, CI/CD (GitHub Actions), Postman

Education

Bachelor of Technology in Computer Science and Engineering
Babu Banarasi Das Engineering College, Lucknow

Oct 2020 – Aug 2024