Abhiraj Sinha

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Summary

Backend-heavy full-stack engineer (3+ years; **Node.js/TypeScript**, **React**) who ships production systems with an **AI-native workflow**: I design and specify the system, direct coding agents (**Claude Code**, **MCP**, **subagents**) to build and test it, and own **review, verification and production rollout**. Most recently shipped **LLM-driven incident automation** used by SREs during live, **customer-impacting incidents**.

Experience

Software Development Engineer II — *Hyderabad, India*
Zeta (Directi) — *April 2025 - Present*

- **Built an LLM-powered incident communication pipeline** for Hippo, Zeta's Microsoft Teams incident bot (**Node.js, TypeScript, Azure OpenAI**): severity-scheduled customer updates for Sev1–Sev3 incidents (every 60/120/240 min) with an LLM validator (up to 3 regenerations) and SRE approval, published exactly once across replicas; delivered **37 requirements** with **595 tests** and caught **11 defects** in pre-production before release.
- **Built the SaaS Navigator backend in Node.js and TypeScript**: REST APIs across production zones with a cluster-cache refresh, parallel zone requests so one slow zone doesn't block the response, and graceful empty results instead of 500 errors.
- **Cut load on a shared PostgreSQL instance by ~50%** by profiling it with RDS Performance Insights and adding an index for its heaviest query; traced remaining API timeouts to unbounded `COUNT(*)` scans over 100 GB+ tables.
- **Found and fixed 24 defects across 4 backend services** while stabilizing a **1,100+ case functional test suite**, with caller analysis to keep every change backward compatible; CI failures fell from **140 to 8 (94%)**.
- **Ran an AI-native workflow**: specified designs, directed Claude Code and MCP-based agents to implement and test them, and owned review, verification and rollout; created the team's shared agent-skills repository and built **10 reusable skills** for PR review, review-comment resolution, Jira ticket investigation, deployments and API latency analysis.
- **Built the SaaS Navigator frontend** (**React, TypeScript**), a multi-tenant SRE console across production zones: overview, alerts, incidents, clusters, components, flows and customer-services views backed by **11 typed service clients**, with saved views on 5 lists and production usage analytics; wrote **80% of the app's commits**.
- **Shipped shared React/TypeScript packages** consumed by **9 SRE Home micro-frontend apps**, and resolved critical issues across 4 apps within 24 hours for a US client demo.

Software Development Engineer — *Hyderabad, India*
Inncircles (Early-stage Startup) — *March 2024 – Jan 2025*

- Designed and built **REST APIs using Node.js and Express**, implementing request validation, centralized error handling, JWT authentication, and MongoDB data models with Mongoose.
- Built a **drag-and-drop form builder** using React, TypeScript, and Tailwind CSS, adopted by **100+ users**, reducing form-completion errors by **40%** and form-creation time by **50%**.
- Developed a visitor-tracking dashboard using MongoDB aggregation pipelines, improving monitoring accuracy by **35%**.

Software Development Engineer — *Bangalore, India*
Jaza Software (Early-stage Startup) — *June 2023 – Feb 2024*

- Built a **high-performance TV Dashboard** for Android TV, increasing **user engagement tracking accuracy by 50%**, enabling businesses to gain deeper insights.
- Designed a **fully responsive feed page**, reducing **page load time by 30%**, leading to a **15% increase in user retention** across all devices.
- Integrated a **custom in-app camera**, improving **video processing speed by 2x**.
- Conducted benchmark testing on **React Native** UI libraries, optimizing performance and reducing rendering time by **40%**.
- Spearheaded a UI library migration, improving app performance by **500%**, leading to smoother animations and better responsiveness.

Skills

Languages: JavaScript, TypeScript, SQL

Backend: Node.js, Express.js, REST APIs, API Design, Microservices, Middleware, Authentication & Authorization, JWT, WebSockets, Socket.IO, Asynchronous Programming

Frontend: React.js, Redux, Tailwind CSS, HTML5, CSS3

Databases: MongoDB, PostgresSQL

System Design & Networking: High-Level Design, Low-Level Design, Distributed Systems, Microservices, API Communication, HTTP/HTTPS, TCP/IP, WebSockets

Cloud & DevOps: Docker, Kubernetes

AI & Development: Azure OpenAI, prompt design, LLM-as-judge validation, LLM cost modelling, Claude Code, MCP, agent skills, multi-agent workflows

Achievements & Public Work

Profiles: GitHub — LeetCode — Code with Newton

- Ranked **Top 0.16%** (38/22,573) in CodeChef July Challenge — solved advanced algorithmic problems.
- Ranked **Top 4.6%** (1,340/28,907) in CodeChef June Challenge — consistent high scoring.
- Secured **Top 8.6%** and **Top 8.4%** in LeetCode Weekly Contests 329 and 320 — strong performance across diverse topics.
- Taught **1,200+ students** via live sessions and structured tutorials on **Code with Newton**.
- Shared beginner to intermediate projects and guides on GitHub and YouTube to support learners.

Education

Lovely Professional University — *Sept 2019 – May 2023*
B.Tech in Computer Science