

AVINISH KUMAR

Software Engineer — Backend & AI Agents

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SUMMARY

Backend engineer with 3+ years of experience, currently on Leena AI's Core Platform building the systems that run autonomous AI agents for 500+ enterprises — real-time streaming conversation runtime, agent auth, and channel integrations on Node.js/TypeScript microservices across multi-region AWS. Deep AI tooling practice: builds Claude Code + MCP-based multi-agent automation that has made the team's delivery ~10x faster. Full-stack range (React/Next.js). Seeking a Senior Software Engineer role in backend or AI agent systems. I blog about engineering on Medium.

SKILLS

- **Backend:** Node.js, TypeScript, Microservices, AWS (multi-region), MongoDB, RabbitMQ, Kubernetes, Docker, REST, SSE/WebSockets
- **AI / LLM:** AI agents, Claude API & Claude Code, MCP (Model Context Protocol), tool-calling runtimes, multi-agent pipelines, agentic workflows, RAG & semantic search, prompt engineering, streaming LLM responses
- **AI Automation:** Claude-powered dev workflows — automated PR review, agentic E2E test generation, LLM-assisted debugging & RCA — ~10x faster delivery cycles
- **Frontend:** React.js, Next.js, Redux, React Query, Tailwind, styled-components, Storybook
- **Practices:** Distributed systems, zero-downtime migrations, CI/CD, Jest, L3 support, release management

EXPERIENCE

Leena AI, Gurugram — Software Engineer, Core Platform July 2022 – Present

- Built the Agent Dashboard — an AI operator agent in the admin console that streams responses over SSE, executes tools against platform APIs, and lets teams configure and debug bots conversationally.
- Own the real-time conversation runtime powering the chat platform for 500+ enterprises: SSE/WebSocket streaming, server-driven UI components, reconnect message replay, and agent token auth (JWT/ACL) across multi-region AWS.
- Led type-safety migration across a large Node.js/TypeScript monolith and microservices — enabled noImplicitAny, resolving 948 type errors; added RabbitMQ service-level health checks and zero-downtime DB migration patterns.
- Shipped 4 channel and auth integrations end to end: WhatsApp v2 revamp, MS Teams provisioning, live-chat handoff with RFC 7662 token introspection, and SAML SSO.
- Built Claude-powered engineering automation adopted team-wide — multi-agent PR review pipeline (60–80% cost reduction), agentic E2E test generation, custom MCP servers for semantic code search across 9 repos — cutting review and test cycles from hours to minutes (~10x).
- Own L3 production support and release management for 3 product modules across 6+ repositories, including a mandatory pre-deploy sign-off gate auditing scalability, reliability, feature flags, and latency.
- Spearheaded a design system of 30+ components and a micro-frontend framework used by 25+ engineers across 500+ enterprise deployments, improving UI consistency and cutting onboarding time.
- Migrated legacy frontends to a modular monorepo, cutting build times by 50%; improved web app load performance by 35% via Lighthouse-driven optimization.

Cognizant, Remote — Software Engineer Intern February 2022 – July 2022

- Migrated a legacy BackboneJS frontend to ReactJS and shipped new Chrome-extension features.
- Created end-to-end web test automation scripts, reducing manual QA effort and accelerating release cycles.

EDUCATION

Indian Institute of Technology (IIT) Patna Jan 2024 – Dec 2025
Master of Technology - MTech, Artificial Intelligence & Data Science Engineering, AI and DSE — 8.80 CPI

Chandigarh Engineering College Aug 2018 – June 2022
Bachelor of Engineering, Computer Science — 7.80 CGPA