

Sai Kumar Nekkanti

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SUMMARY

Senior Software Engineer specialized in scaling cloud-native systems and leading teams from concept to deployment. Delivered high-impact, customer-facing solutions with **98%+ SLA**. Proficient in **Java, Go, Node.js, Python, React, Vue.js, Next.js** and cloud platforms like **Docker, Kubernetes, and AWS**. Focused on **clean code, performance optimization, observability, and end-to-end ownership** in fast-paced environments

EXPERIENCE

Diaconia

Jun 2024 – May 2025

Software Development Engineer

Gaithersburg, MD, USA

- Constructed high-performance UI with **Next.js and USWDS**, achieving **90+ Lighthouse scores** across all metrics while reducing page load times by 45% and elevating accessibility to WCAG 2.1 AA compliance
- Developed and deployed containerized **Flask** microservices integrated with **Large Language Models (LLMs)**, achieving a **20% reduction** in response times by optimizing data preprocessing and query performance

Rakuten

Apr 2023 – Jul 2023

Software Engineer 2

Bengaluru, India

- Drove engineering excellence by automating code generation with Plop.js and standardizing architectural patterns, reducing development time from **1 week to 2 hours, cutting code review cycles by 20%**, and boosting team productivity
- Led decoupling of monolithic application into **microservices** with **Node.js, Django, and Java, integrating SWR for React dashboards**, enabling near-real-time processing and 50% faster updates
- Spearheaded migration from monolith to **micro-frontend architecture using Webpack 5**, achieving 60% faster page loads while enabling React.js/Vue.js interoperability and reducing code defects by 35% through **custom ESLint standards**

Rakuten

Jan 2022 – Mar 2023

Software Engineer 1

Bengaluru, India

- Engineered Memcached caching layer with TTL for user licenses, decreasing **Elasticsearch query calls by 40%** and reducing average license check latency by 150ms per user request
- Documented 50+ UI components using Storybook**, enabling a component-driven workflow that cut feature development time by 40% and ensured consistent design across enterprise applications
- Spearheaded the development of an e-commerce demo platform using **Java, Python, Node.js, Go, and React**; this streamlined the sales cycle, directly leading to a 40% increase in client acceptance rates
- Led UI modernization with 6-person team, **implementing Vuex/Vue Router and JSON-based graph templates** that reduced development time by 35%, while mentoring juniors to achieve 4 promotions

Rakuten

Jul 2020 – Jan 2022

Associate Software Engineer

Bengaluru, India

- Designed and implemented a **Java Spring Boot** microservice with a **BFF architecture**, unifying customer data, cutting redundant queries by 75%, and speeding data retrieval by 40%, boosting decision-making and system performance
- Enhanced code quality as primary point of contact for product UI by implementing **Husky, Prettier, linting, comprehensive unit testing, and strict code reviews**, reducing code smells by 30% and improving maintainability by 25%
- Led development of a **distributed tracing library in Golang and JavaScript**, enhancing observability and achieving a 98% on-time resolution rate for customer issues
- Orchestrated reliable agent-collector** communication system using gRPC and Protocol Buffers with encryption and authentication, achieving 99.9% uptime and reducing transmission failures by 95%

Rakuten

Jan 2020 – Jul 2020

Software Developer Intern

Bengaluru, India

- Devised a scalable Endpoint Monitoring System in **Go** that processes **10,000+ endpoints in real-time using tuned goroutines and channels**, reducing alert latency by 40% while maintaining 99.9% system reliability
- Engineered **Java-based alerting module for SaaS Observability platform** handling 10+ configurable thresholds with multi-channel notifications, **reducing customer MTTR by 70%** and improving platform reliability SLAs

SKILLS

Languages: Java, Python, Go, JavaScript, TypeScript, HTML5/CSS, SCSS, SASS, Node.js, Reactjs, Vue.js, Tailwind CSS

Frameworks: Spring Boot, Tomcat, Hibernate, Mockito, Junit, Redux, React Query, Jest, Next.js, Vuex, Pinia, GraphQL, i18n

Database: MongoDB, Elasticsearch, MySQL, PostgreSQL, DynamoDB, Memcached, Redis, S3

Tools: Git, Jenkins, Docker, Kubernetes, Prometheus, OpenTelemetry, Grafana, K6, Github Actions, AWS, EC2, Kafka, SQS

EDUCATION

George Washington University - M.S. in Computer Science

Aug 2023 – May 2025

Washington, DC

Bangalore University - B.E. in Computer Science and Engineering

Aug 2016 – Sep 2020

Bangalore, KA