

## SAI KUMAR NEKKANTI

Arlington, VA | 240-384-8072 | [saikumar.nekkanti@gwu.edu](mailto:saikumar.nekkanti@gwu.edu) | [linkedin.com/in/sainekkanti-](https://www.linkedin.com/in/sainekkanti-) | [github.com/saicasm](https://github.com/saicasm) | [saikenkkanti.medium.com/](https://saikenkkanti.medium.com/) | [sainekkanti.vercel.app](https://sainekkanti.vercel.app)

### EDUCATION

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#### George Washington University

Master of Science in Computer Science (Currently researching eBPF)

Washington, DC

Expected May 2025

#### Bangalore University

Bachelor of Engineering in Computer Science and Engineering

Bengaluru, India

Aug 2016 – Sept 2020

### EXPERIENCE

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#### Rakuten

Software Engineer II

Bengaluru, India

Apr 2023 – Jul 2023

- Streamlined dev efficiency (+25%) with templated components (Plop.js) & unit tests enforced by ESLint rules.
- Championed proactive code health: conducted rigorous code reviews, implemented linters, pre-commit hooks using Husky, and utilized SonarCube for continuous improvement.
- Built high-quality User Analytics (75% test coverage) with Node.js, React/Vue & Kafka (Django backend). Leveraged Webpack 5 & module federation for a performant experience (45% reduced frontend loading time).

#### Rakuten

Software Engineer I

Bengaluru, India

Jan 2022 – Mar 2023

- Onboarded 5 junior associates in core Vue.js skills (Vuex, GraphQL, Axios) & unit testing, reducing onboarding time by 60% (5 to 2 sprints) and boosting team productivity by 15% (Q1).
- Championed the use of i18n (internationalization) practices for applications to be globally adaptable.
- Boosted sales pitch effectiveness by 45% with a Polyglot E-Commerce Microservices demo (PHP, Go, Java, Node.js, Python) showcasing Rakuten Sixthsense's Observability.
- Streamlined new customer onboarding (10% increase) and enabled product expansion (30%) by adding Next.js support to the existing Browser Monitoring Agent.

#### Rakuten

Associate Software Engineer (Founding Engineer) - APM

Bengaluru, India

Jul 2020 – Jan 2022

- Enabled distributed tracing for Elasticsearch, Couchbase, and MySQL (76% increase for Go language) with a Go agent, improving code maintainability through 80% test coverage and an enhanced logging format.
- Integrated a configurable multi-channel alerting system (email, Slack, webhooks) into the multi-tenant Java backend, enabling real-time, tenant-isolated notifications based on user-set thresholds.
- Boosted REST API performance with asynchronous processing (Go routines), achieving a 50% reduction in response time and handling 20% more requests per second.
- Architected & built scalable gRPC backend with secure token registration, handling 100 concurrent tenants.

### TECHNICAL SKILLS

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**Languages:** Java, Go, Python, JavaScript/Typescript, HTML5/CSS, SQL (MySQL), NoSQL (MongoDB, Elasticsearch).

**Frameworks:** Reactjs, Next.js, Vue.js (Vue2.0, Vue3.0), Node.js (Express), SpringBoot, Flask, Django, SCSS.

**Cloud:** AWS (EC2, RDS, VPC, S3, Lambda, IAM, ELB, Cloudwatch, DynamoDB), Docker, Kubernetes(k8s), Jenkins.

**Dev Tools:** Git, Memcached, Kafka, Postman, VS Code, IntelliJ IDEA, GoLand, Jira, Bitbucket, Github.

**Others :** TailwindCSS, Testing (Jest, Junit), Charts (Apexcharts, ECharts), Prometheus, Grafana, GraphQL, REST.

### PROJECTS

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**Distributed Music Recommendation System** ([Github](#)) | Next.js, Java, Elasticsearch, Kafka

Apr 2024

- Developed scalable music recommendation system: Designed & implemented distributed ML model using Spotify data. Leveraged next.js frontend & Spring Boot backend (CircuitBreaker, Kafka) for resilience & real-time data.

**JobTracker** ([Github](#)) | React.js, Go(Gin), Python (Django), Chrome extension, MongoDB

Sept 2023

- Engineered a React.js frontend and Go (Gin) backend API for a web application assisting tech job seekers.
- Capitalized Python (NLTK) to analyze job descriptions. Achieved 30% faster data processing with Go channels for message passing and asynchronous processing.

### CERTIFICATIONS

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**AWS Academy Graduate** - AWS Academy Cloud Foundations | [Link](#)

Mar 2024

**AWS Academy Graduate** - AWS Academy Cloud Architecting | [Link](#)

Apr 2024