Venkata Krishna Ravi

+1 631-435-5912 | venkatakrishna.ravi@stonybrook.edu | github.com/rvkrishna13 | linkedin.com/in/venkata-krishna-ravi-b6903a195/

SUMMARY

Results-driven Software Engineer with 3+ years of experience building high-performance backend systems and sleek, production-ready UIs. Expert in Spring Boot, Node.js, Redis, React, and AWS. Proven ability to optimize latency, automate deployments, and ship scalable features across the stack.

EDUCATION

Stony Brook University, *MS in Computer Science* | USA   Aug 2023 - May 2025

Coursework: Operating Systems, System Security, Computer Vision, Machine Learning, Reliable Systems Programming

Indian Institute of Technology Hyderabad, *B.Tech in Computer Science And Engineering*   July 2017 - May 2021

Coursework: Algorithms, Data Structures, Database Systems, Cloud Computing, Computer Networks, Distributed Systems

PROFESSIONAL EXPERIENCE

Remit2Any, *Software Engineer* | Everett, WA   Feb 2025 - Present

- Designed a background notification system using **Spring Boot, Selenium, and cron jobs** to track competitor exchange rates, reducing manual monitoring effort by **40%**.
- Built **scalable backend APIs** with pagination and Redis caching to retrieve thousands of transactions for the support team, cutting user query response time by **30%**.
- Instrumented services with **OpenTelemetry**, enabling fine-grained observability through structured logs and metrics, and reducing issue triage time by **25%**.
- Established **CI/CD pipelines** via GitHub Actions to ensure reliable deployments and rollback strategies for backend services on AWS ECS and RDS.

Neuroblox, *Software Engineer* | Stony Brook, NY   Jan 2024 - Feb 2025

- Upgraded the UI framework from Vue 2 to Vue 3, modularizing components, optimizing reactive state handling, and improving rendering performance by 50%.
- Engineered an interactive simulation interface using Vue.js, JointJS, and custom JavaScript events, enabling researchers to model neuron circuits visually through drag-and-drop block creation and dynamic edge connections.
- Leveraged JavaScript closures, event delegation, and reactive data flows to simplify complex neural interactions, reducing manual code intervention and enhancing usability for non-technical users by 3×.

Vibesea, *Software Engineering Intern* | Remote (India)   May 2024 - Aug 2024

- Replaced fragile web scrapers with **LLM-powered data extraction pipelines**, improving cross-site scalability and reducing new site integration time by **50%**.
- Integrated **Sentry and Prometheus** for monitoring application performance and error tracking, ensuring early fault detection during scale-up phases.
- Developed a **Node.js and Kafka-based backend** to push near-real-time job alerts to users, maintaining freshness across 10K+ job listings daily.
- Deployed microservices to **AWS Lambda and ECS using Docker and GitHub Actions**, enabling streamlined release cycles and environment parity.
- Built a **React/TypeScript** browser extension to automate job application forms, reducing user effort by **45%** and increasing completion rates.

Jio Platforms, *Software Engineer (Jio Health)* | Hyderabad, India   July 2021 - Aug 2023

- Built a secure, versioned REST API microservice using **FastAPI** to onboard healthcare providers, achieving **99.9% uptime** and reducing partner **integration time by 35%**.
- Led the migration from a monolithic backend to microservices using Spring Boot and Docker, improving service **scalability by 60%** and cutting **infra costs by 20%**.
- Implemented an RSA-based encryption microservice with Redis caching for inter-service communication, boosting data security and **reducing CPU load by 40%**.
- Designed data ingestion pipelines in **Python** to scrape and filter health articles based on user preferences, powering personalized content for **2M+ users**.
- Optimized legacy APIs by reducing redundant DB queries and introducing connection pooling, resulting in a **60% performance gain**.

SKILLS

Languages	Python, Java, C, C++, SQL, Javascript, Typescript, Rust, SQL, GO, Bash
Backend	Spring Boot, FastAPI, Node.js, Django, Hibernate, REST APIs, GraphQL, Kafka, gRPC, JPA
Frontend	React.js, Angular, Vue.js, TypeScript, JavaScript, HTML5, CSS3, Tailwind CSS, Bootstrap
Databases	PostgreSQL, MySQL, MongoDB, Redis, DynamoDB, OracleDB, Elasticsearch
Cloud & Tools	AWS, Azure, GCP, Linux, Git, GitHub, Jira, VS Code, IntelliJ IDEA, Postman, Figma
CI/CD & DevOps	GitHub Actions, Jenkins, GitLab CI, Docker, Kubernetes, Helm, Terraform, Nginx
Monitoring & Observability	OpenTelemetry, Prometheus, Grafana, ELK Stack, Sentry, CloudWatch
Testing	JUnit, Mockito, PyTest, Cypress, Postman, Swagger/OpenAPI