

SAI KIRAN ANUMALLA

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EDUCATION

Master of Science in Computer Science, Northeastern University, Boston, MA Sep 2023 – May 2025
Relevant Coursework: System Design, DBMS, Data Structures and Algorithms, Web Development, Distributed Systems.

Bachelor of Science in Computer Science, Indian Institute of Technology Varanasi, India Jul 2017 – May 2021
Relevant Coursework: Operating Systems, Algorithms, Computer Networks, Machine Learning, Linux Programming.

EXPERIENCE

Software Engineer Intern Jun 2024 – Nov 2024
Codamatrix, Boston, MA

- Automated **PostgreSQL cron** jobs purging **360,000+** audit records daily across 5 schemas, reducing database size by **80%** and cutting storage costs.
- Developed a **Spring Boot** microservice leveraging **Kafka**, **AWS SQS**, and Cloud Events, notifying production stuck cases via **Slack** and reducing MTTR by 86%.
- Automated workflows using **Camunda**, enhancing system scalability and reducing manual interventions. Delivered full-stack solutions with **React** and Spring Boot and streamlined **CI/CD** with **Jenkins**.

Software Engineer Jul 2021 – Aug 2023
BNY Mellon, Pune, India

- Led the design of an **event-driven** Spring Boot **scheduling** microservice with Quartz and Kafka, enhancing scalability and decoupling interdependencies.
- Scaled** application performance through query optimization, **caching** strategies, and integration testing, enabling microservices to handle a **10x** increase in load.
- Designed **REST APIs** for backend microservices using Java, Spring Boot, PostgreSQL. Refactored legacy codebase following **SOLID** principles, achieving **98%** code coverage with **TDD** and reducing production bugs.

SKILLS

Programming Languages	Java, JavaScript, Python, Swift, C++
Databases	PostgreSQL, MySQL, MongoDB, Redis, DynamoDB, Firestore
Technologies/Frameworks	REST, gRPC, GraphQL, Web Sockets, SpringBoot, Camunda, Node.js, Express.js
Tools	Kafka, Docker, Kubernetes, JUnit, Mockito, Hibernate, Terraform, React
	Git, Maven, Gradle, Grafana, Postman, AWS, Azure, IntelliJ, Confluence

PROJECTS

Image Processing Application - A distributed system for image transformations

- Skills:** Java, SpringBoot, gRPC, Programming Design, OOP, TDD, AWS, Redis.
- Developed an image processing application using **Java** and **SpringBoot**, leveraging **OOP** principles and design patterns (**MVC**, **Builder**) for maintainable architecture.
- Integrated **gRPC** for image transformation endpoints, reducing latency by 30% compared to similar tools.
- Employed **AWS Load Balancing**, **AWS CloudWatch**, **AWS EC2**, **Auto Scaling**, **AWS S3** to achieve high reliability.

StackOverflow Clone - A full-stack Q&A platform

- Skills:** React, JWT Authentication, Postgres, Java, SpringBoot, Cypress, Kafka, Docker, Kubernetes.
- Built a StackOverflow-like platform using **ReactJS** and **SpringBoot**. Implemented **JWT authentication**, **PostgreSQL** for efficient data handling, and deployed with **Docker** and **Kubernetes** on **AWS**, ensuring 99.9% uptime.
- Integrated **Kafka** for asynchronous messaging and Cypress testing, reducing frontend bugs by 40% and improving system responsiveness.

Crypto GPT - An AI-powered cryptocurrency assistant

- Skills:** Java, SpringBoot, GraphQL, ChatGPT API.
- Designed a dashboard displaying trends of the top 20 most valuable coins using **GraphQL** for real-time data fetching.
- Integrated **ChatGPT API** for a chatbot providing accurate answers to crypto-related queries.
- Built a secure backend with advanced authentication and data encryption mechanisms for user safety.