

VENKATA VARASIDDI MANOJ KUMAR JALA

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Education

Indiana University Bloomington

M.S, Computer Science, GPA: 4/4

Jan 2023 - May 2025

Relevant Courses: Software Engineering (web development), Applied Algorithms, Computer Networks, Information Visualization (data analytics)

Work Experience

Verizon

Apr 2022 - Aug 2023

Software Developer, Full Stack Engineer

Tech-stack: Java Development(Java 8), Spring Boot, Spring WebFlux, Postman, GraphQL, REST API, JavaScript, React.js, Redux, Jenkins, SQL, MySQL, GitLab, Jira

- **Developed and optimized** enterprise **Java applications** using **Spring Boot, Reactive Programming (Spring WebFlux)**, and **Backend Microservices** architecture, ensuring **high scalability, performance, and efficiency** in an **agile environment**.
- **Designed, built, and consumed RESTful APIs** and **GraphQL services** for **finance, payments, account, and inventory management systems**, leveraging **Postman** for testing, **Spring WebFlux** for non-blocking asynchronous processing, and **SOA principles** for service integration.
- **Engineered and deployed** event-driven systems leveraging **Kafka and RabbitMQ**, enhancing real-time data streaming and **message queue processing**, and supply chain management.
- **Implemented multithreading and concurrency management**, optimizing high-throughput applications and **reducing latency** to improve system efficiency.
- **Wrote and maintained unit and integration tests** using **JUnit, Jest, Selenium and JaCoCo**, achieving a **20% increase in application uptime** through early defect detection.
- **Executed database optimization strategies** using **SQL and MySQL**, reducing query execution times and **improving system performance**.
- **Deployed, monitored, and managed applications** in **AWS cloud computing environments**, leveraging CI/CD pipelines in **GitLab and Jenkins** for automated deployments and continuous integration.
- Collaborated with cross-functional teams in an agile environment, actively participating in daily standups, code reviews, sprint planning, backlog grooming, and retrospectives to align with product innovation and software development best practices.
- Ensured adherence to best practices in software testing, security protocols, and performance optimizations using **SonarQube**, maintaining code quality and compliance with enterprise software testing standards.

Verizon

Aug 2021 - Apr 2022

Software Engineer Intern, Front End

Tech-stack: React.js, Redux, Saga.js, Jest, HTML, CSS, JSON, REST API, Ajax

- Wrote and executed automated unit tests using Jest, increasing test automation coverage by 35% and improving software reliability.
- Developed robust UI components using React, TailwindCSS, and Redux, enhancing front-end architecture and application Development.
- Implemented **AJAX calls and RESTful web services**, improving **client-server interaction**.

Projects

Beat the heat – ReactNative, MapBox, Postgres

- Mobile Application in collaboration with The healthy cities lab to view the climatic conditions in the city of Bloomington.

Distributed File Storage System – C#, gRPC, .NET Core, MongoDB

- A scalable file storage solution built with C# and gRPC, enabling efficient distributed file management and MongoDB integration

Intelligent Travel Planning System | PHP (Laravel), Python, MySQL, VueJs, Weather API, Docker, Redis

- A travel planner web application development to generate personalized itineraries with weather, events, and location-based data.

Skills

Programming Languages: Javascript, HTML5/CSS3, Java, Python, TypeScript, C++

Frameworks: Spring, SpringBoot, ReactJS, Redux, SQL, NodeJS, Express, Spring Security, Spring Webflux, Core Java, Selenium

Tools/ Paradigms: GIT, GitHub, Bitbucket, Jenkins, AWS CodePipeline, Docker, Nginx, Tomcat, Kubernetes, Maven, Postman, SonarQube, Jira, Elastic-Stack, Reactive Programming in Java, Programming Skills, data structures, Design Patterns, IntelliJ IDE, Unix, Git Version Control, Operating Systems, XML, Object-Oriented Programming, problem-solving

Databases: PostgreSQL, MySQL, MongoDB, GraphQL, AWS DynamoDB, Cassandra, Cloudant