Venkat Pavan Poolla

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PROFESSIONAL SUMMARY

Full-stack Java developer with 3+ years of experience delivering secure, low-latency microservice platforms in high-throughput environments. Proficient in Core Java 8-17, Spring Boot, AWS, Terraform, Docker/Kubernetes, Kafka, and CI/CD automation. Adept at end-to-end SDLC—from design and coding to production support—while championing observability, resiliency, and inclusive team culture.

Work Experience

University of Missouri **Jan 2025 – Present**

Software Engineer Intern Missouri, USA

- Developed scalable and secure micro-service-based application on AWS using Spring Boot for service orchestration and Spring Data JPA for data management, with Maven for automated builds, reducing operational costs by 30%.
- Implemented and optimized Single-page applications (SPAs) with React.js, enhancing user experience and reducing page load times by 25% through the efficient use of Webpack, Babel, and Lazy Loading.
- Set up and maintained Apache Kafka clusters with up to 50 broker nodes, ensuring 99.9% uptime and enhancing scalability by 50% with containerized microservices
- Configured CI/CD pipelines with Jenkins and GitHub Actions, reducing release cycle times by 60% and improving deployment consistency.

University of Missouri **Jan 2024 – Dec 2024**

Graduate Assistant Columbia, Missouri

- Developed REST APIs using Java and Spring Boot to process high-throughput requests, incorporating asynchronous processing and event-driven design to manage spikes in traffic with 40% lower latency under load.
- Engineered front-end interfaces in React.js and Node.js, building dynamic, accessible UI components and integrating form validation and responsive layouts to improve user experience across platforms.
- Designed and optimized relational and NoSQL schemas using PostgreSQL and MongoDB, increasing query performance by 35% and reducing redundant data by 20%.
- Configured Spring Cloud Gateway for intelligent routing and load balancing, boosting microservice resiliency and enabling graceful degradation during service outages.

Infosys **Mar 2021 – Dec 2022**

Systems Engineer Hyderabad, Telangana, India

- Designed scalable backend systems with Spring Boot, JSP, and JDBC, streamlining data processing workflows and enhancing response efficiency by 30% through refactored service logic and DAO optimizations.
- Delivered reusable frontend components and dashboards using React.js and Node.js, reducing development time by 25% and increasing consistency across modules through shared design libraries.
- Integrated Apache Kafka and RabbitMQ for asynchronous, event-driven communication between microservices, achieving near real-time processing with 99.95% event success rate.
- Maintained and automated build deployments using Tomcat and WebLogic, implementing CI/CD pipelines with Jenkins that supported rapid releases and hotfix delivery to staging and production.

Technical Skills

Programming Languages: Java, Python, C, C++, C#, JavaScript, TypeScript

Backend Technologies: Java, Spring Boot, Spring MVC, Spring Security, Spring Cloud, Hibernate

Web & API Development: ReactJS, Angular, Node.js, RESTful APIs, Microservices

Database: MySQL, MongoDB, PostgreSQL, GCP Cloud Spanner

Cloud & DevOps Tools: AWS, GCP, Docker, Jenkins, Kubernetes

Testing & Tools: JUnit, Postman, Git, Maven, Agile/Scrum

Education

University of Missouri– MS in Computer Science **Jan 2023 - Dec 2024**

Anil Neerukonda Institute of Technology and Sciences **Aug 2016 - Sept 2020**