

Venkat Pavan Poola

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PROFESSIONAL SUMMARY

Full-stack Java Developer with 3+ years of experience building scalable and secure web applications using Java, Spring Boot, React, and SQL. Skilled in J2EE (JSP, Servlets), Struts, MVC architecture, and Bootstrap for responsive UIs. Proficient in CI/CD using Azure DevOps and Jenkins, with strong experience in microservices, RESTful APIs, database design, and front-end integration. Adept at Agile/Scrum methodologies with a passion for improving delivery processes.

Work Experience

University of Missouri

Jan 2025 – Present

Software Engineer Intern

Columbia, Missouri

- Engineered end-to-end web application using **Spring Boot** with **Maven** for backend builds and **ReactJS** for responsive frontend, reducing development time by 30% and enhancing maintainability through modular architecture.
- Deployed web apps on **AWS** using **EC2** and **S3**, improving load times by 30% and ensuring 99.9% uptime for consistent delivery.
- Managed **PostgreSQL** and **Redis** instances for high-throughput web applications, achieving 99.9% availability and improving data retrieval speed by 60% through optimized caching strategies.
- Integrated external **AI APIs** (e.g., chatbot and **NLP** services) into backend systems, enabling interactive user features and reducing manual query handling time by 35% across the application.
- Spearheaded **CI/CD** automation using Jenkins, reducing deployment time by 40% and post-release incidents by 25% through streamlined pipelines and integrated monitoring.

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 **ReactJS**, building dynamic, accessible UI components and integrating form validation and responsive layouts to improve user experience across platforms.
- Designed and optimized relational database schemas using **PostgreSQL** and SQL best practices, improving query performance by 35% and reducing data redundancy by 20% through efficient normalization and indexing strategies.
- Collaborated in Agile Scrum teams, led sprint reviews, and used Git for version control helping maintain 90%+ delivery velocity.

Infosys

Mar 2021 – Dec 2022

Systems Engineer

Hyderabad, India

- Designed scalable backend systems with **Spring Boot** 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 **ReactJS**, reducing development time by 25%, and integrated dynamic data views powered by optimized **SQL** queries and **Redis** caching for real-time backend connectivity.
- Set up and maintained **Kafka** clusters with 50+ broker nodes to support real-time messaging, ensuring 99.9% uptime and improving scalability by 50% using containerized **microservices** on **AWS**.
- Containerized **microservices** using **Docker** and orchestrated deployments on **Kubernetes**, improving system scalability by 45% and reducing manual configuration errors by 60%.
- Contributed to full **SDLC** phases, including code reviews, testing, and post-release support, 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: Java, Spring Boot, Spring MVC, Spring Security, Spring Cloud, Hibernate, Node.js

Frontend: ReactJS, Next.JS, Angular, HTML5, CSS3

Database: MySQL, MongoDB, PostgreSQL, SQL, GCP Cloud Spanner, Redis

Cloud & DevOps Tools: AWS (EC2, S3, RDS, CloudWatch), GCP, Docker, Jenkins, Kubernetes, CI/CD

Testing & Tools: JUnit, Postman, Git, AI APIs, Agile/Scrum, ServiceNow, Kafka, RabbitMQ, RESTful APIs, GraphQL

Education

University of Missouri– MS in Computer Science

Jan 2023 - Dec 2024

Anil Neerukonda Institute of Technology and Sciences

Aug 2016 - Sept 2020