

Venkata Pavan Kalyan Kumar Pinniboina

venkatapavan@careerattainment.com | +1 (214) 726-6127 | USA | [LinkedIn](#) | [GitHub](#)

Summary

Passionate Software Engineer with over 4 years of experience excelling in full-stack development. Adept at collaborative problem-solving and dedicated to crafting innovative, scalable solutions for project success. Proven expertise in building microservices architectures and optimizing system performance, with a strong focus on clean code, automation, and continuous integration to drive efficiency and reliability.

Education

Master's in computer science, *University of Central Missouri | Warrensburg, USA | GPA: 3.5/4* Jan 2023 – May 2024

Courses: Advance of Algorithms, Compiler Design, Advance Operating systems, Advanced Database Systems, Big data, Machine Learning, Stat Found Data Science & AI, Software Engineer, Software Testing & Qual Assurance, Prog Found Data Science & AI.

Bachelor's in computer science, *NRI Institute of Technology | Vijayawada, India | GPA: 7.38/10* Jun 2016 – Apr 2020

Technical Skills

Languages: JavaScript, TypeScript, JSX, Java, Python.

Front End: React.js, Angular, React Hooks, Context API, Functional Components.

Libraries & Frameworks: React, Spring Boot, Node.js, J2EE, Spring Cloud, Spring Security, Hibernate.

UX Tools: Adobe XD, Figma, Responsive Design.

Testing Tool(s): Postman, Cucumber, TestNG.

Web Technologies: HTML5, CSS3, Sass, Redux, React-router.

Databases: MySQL, MongoDB, Oracle.

Web Services: RESTful, Soap, JSON.

Cloud Platform: AWS, DevOps, Docker, Jenkins.

Version Control: GIT, GitHub.

Others: Web pack, ES Lint, Eclipse, VS code, Firebase, JIRA, Agile methodologies.

Professional Experience

Full Stack Developer, *HCL Tech* 06/2024 – Present | Remote, USA

- Designed and developed a high-performance front-end using **React** and **Redux**, optimizing page load times by 30% through state management and code refactoring, significantly improving user experience (UX) and reducing bounce rates.
- Engineered a microservices-based architecture with **Java (Spring Boot)**, **J2EE**, and **Spring Cloud**, enabling modular service management, independent deployments, and horizontal scaling, while integrating **API Gateway** and **circuit breaker patterns** for enhanced fault tolerance and resilience.
- Developed **RESTful APIs** for seamless integration between microservices and external systems, using **Swagger** for documentation and **Postman** for thorough testing, ensuring smooth communication and service across the platform.
- Optimized data persistence by implementing **Hibernate ORM** and **MySQL**, improving query performance by 30% while ensuring transactional consistency and high availability across distributed services.
- Enhanced application scalability and performance by integrating **Redis** for caching and **MongoDB** for unstructured data storage, supporting 30% more concurrent users with minimal impact on system performance.
- Implemented **Docker** for containerized microservices and automated **CI/CD pipelines** using **Jenkins** and **GitLab CI**, ensuring zero downtime and continuous delivery.

Software Engineer, *Tata Consultancy Service* 10/2019 – 12/2022 | Hyderabad, India

- Designed and implemented microservices-based OSS solutions using **Java 8/11**, **Spring Boot**, and **Kubernetes**, improving scalability, performance, and fault tolerance in Telstra's cloud-native infrastructure.

- Engineered a high-performance messaging system with **Apache Kafka** and **Spring Boot**, facilitating bidirectional communication between microservices and external systems, reducing message latency and enhancing real-time data flow.
- Integrated robust security mechanisms using **Spring Security**, **OAuth2**, and **JWT**, ensuring secure API access and data protection across the platform, in compliance with enterprise-level security protocols.
- Automated an end-to-end testing framework with **Cucumber**, **TestNG**, and **Spring Boot**, cutting testing time by 70%, and collaborated using **Jenkins**, **Docker**, and **Git** to streamline CI/CD and improve software quality.
- Built and integrated a **Java-based email notification system** within the order orchestration pipeline, automating jeopardy order alerts and enhancing operational efficiency and customer satisfaction.
- Developed and optimized **RESTful APIs** to support seamless data exchange between BSS/OSS layers, improving integration efficiency with third-party systems and reducing manual intervention by 60%.
- Leveraged **Prometheus** and **Grafana** to implement real-time monitoring and alerting for critical microservices, enabling proactive issue detection and reducing system downtime by 40%.
- Refactored legacy monolithic components into containerized microservices using **Docker** and **Kubernetes**, reducing deployment time and improving system modularity for better maintainability and scalability.
- *Helped senior workers in debugging, fixing, and testing the code to improve website performance and user experience by 25%.*

Projects

Trading Platform (Java, React.js, AWS, Tailwind CSS, Typescript)

- Developed a full-stack crypto currency trading app from scratch using Spring Boot, React, Tailwind CSS, enabling users to buy/ sell 16,000+ crypto currencies using real-time market data, load funds, withdraw, and transfer wallet-to-wallet.
- Implemented 40+ API endpoints and interactive price history graphs with historical data access for up to 365 days.
- Implemented Spring Security for authentication and authorization (role-based access controls), enhancing application security.
- Designed comprehensive user features include 2 payment gateways. AI chatbot integration and robust 2FA authentication.
- Leveraged Hibernate/JPA for ORM while utilizing raw SQL queries to optimize database performance and reduce ORM overhead.
- Implemented automated CI/CD pipelines using Jenkins to deploy applications on AWS and Kubernetes infrastructure.

Multi-Vendor E-commerce Platform (Java, React.js, AWS, Tailwind CSS, Typescript)

- Led a team of 4 to launch a multi-vendor e-commerce platform in 4 months, using React, Spring Boot, enabling multi-vendor operations with robust features for customers, sellers, and administrators, supporting 50,000+ products and real-time analytics.
- Built advanced customer features, like AI chatbot, product filtering, shopping with coupons, and real-time order tracking, JWT authentication, Spring Security for role-based access control, and integrating 2 payment gateways.
- Improved backend API performance by implementing caching using Redis and optimizing SQL queries for large datasets.
- Collaborated with cross-functional teams to design responsive user interfaces using ReactJS and Tailwind CSS frameworks, providing real-time analytics for earning graphs with data spanning up to the last 12 months.