

Venkata Pavan Kalyan Kumar Pinniboina

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Profile Summary

Full Stack Developer with 4+ years of experience in designing, developing, and deploying scalable web applications and microservices using Java, Spring Boot, React.js, Docker, and AWS. Adept at Agile methodologies, CI/CD, and RESTful API development with a focus on performance, security, and cloud-native architectures. Proven ability to collaborate with cross-functional teams to deliver end-to-end solutions.

Skills

Languages: Java, JavaScript, Python, SQL, Bash

Frontend: HTML5, CSS3, JavaScript, React.js, Angular, Redux, AJAX, Tailwind CSS

Backend: Spring Boot, Spring MVC, Hibernate, JPA, Node.js, Express.js, Django, Flask, ASP.NET, RESTful APIs

Database: MySQL, MongoDB, PostgreSQL, SQL Server, Oracle, Redis, Firebase, Cassandra

Tools & Cloud: Git, Docker, Jenkins, Kubernetes, AWS (EC2, S3, RDS, Lambda, Cognito), Azure, Swagger, Postman

DevOps & Testing: GitLab CI/CD, JUnit, Mockito, Agile/Scrum, JIRA, Confluence

Professional Experience

Full Stack Developer, HCL Tech

Jun 2024 – Present | USA

- Designed and developed a cloud-native e-commerce platform using Java, Spring Boot, and React.js.
- Deployed applications using AWS EC2, Docker, and Kubernetes; built CI/CD pipelines with Jenkins.
- Implemented secure API authorization using OAuth2 and JWT for role-based access control in microservices architecture.
- Built scalable microservices with RESTful APIs, integrated Spring Security and JWT for authentication.
- Implemented unit testing with JUnit and Mockito, improving reliability and maintainability.
- Configured AWS RDS and SQL for data storage, optimized query performance for concurrent users.

Software Developer, Tata Consultancy Service

Oct - 2019 - Dec 2022 | India

- Designed and developed RESTful APIs using Java and Spring Boot as part of an Agile team, enabling seamless integration between backend services and front-end applications, resulting in a 20% improvement in data retrieval speed.
- Developed complex SQL queries and stored procedures in MySQL on AWS RDS, optimizing data processing and improving query performance by 25%, while ensuring high data integrity across transactional systems.
- Wrote and maintained unit tests for all Java APIs using JUnit and Mockito, integrated with CI pipelines to enable early bug detection and reduce production defects by 30%.
- Containerized Java-based applications using Docker and deployed on AWS EC2, enabling environment consistency across dev, QA, and production environments and reducing deployment time by 40%.
- Collaborated with the DevOps team to implement CI/CD pipelines using Jenkins and GitLab CI, deploying Spring Boot applications to AWS EC2 with S3-based artifact management, accelerating release cycles by 50%.
- Built secure user authentication and profile management features using Spring Security and AWS Cognito, supporting 10,000+ active users and ensuring compliance with access control and data protection policies.

Education

Master of Science, University of Central Missouri

Jan 2023 - Dec 2024 | USA

Computer Science (CGPA: 3.50)

Bachelor of Technology, NRI Institute of Technology

Aug 2016 - Apr 2020 | India

Computer Science

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.