Mohana Pavan Kumar Vankayala

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Summary

Java Full Stack Developer with Around 4 years of experience designing and deploying enterprise-level applications using Java 8+, Spring Boot, React, Angular and AWS. Expertise in building scalable microservices, integrating APIs, and implementing secure, cloud-native solutions. Skilled in PostgreSQL optimization, CI/CD automation, and containerization using Docker and Kubernetes. Strong background in Agile/Scrum methodologies, RESTful API design, and performance tuning for high-availability systems. Proven ability to enhance application reliability, minimize latency, and deliver production-ready, maintainable software solutions in cloud-based environments.

Education

Master of Science in Computer Science **Aug 2025**
University of Central Missouri, MO

Skills

Programming Languages: Java 8+, J2EE (Servlets, JSP, EJB, JMS), SQL, PL/SQL
Frameworks & Technologies: Spring Boot, Spring MVC, Spring Data JPA, Spring Security, Spring Integration, Microservices Architecture, React.js, Angular.js, Node.js, Vue.js
Databases: Oracle, SQL, MySQL, PostgreSQL, MongoDB, NoSQL Databases
Web Technologies: HTML5, CSS3, Bootstrap, XML, JSON, TypeScript, JavaScript, AJAX, jQuery, GraphQL
CI/CD and DevOps Tools: Maven, Gradle, Jenkins, Docker, Kubernetes, Postman, GitHub Actions, GitHub, Apache Kafka
Testing & QA Tools: JUnit, Mockito, Postman, Swagger
Development Tools: IntelliJ, Eclipse, Net Beans, Spring Tool Suite (STS)
Design Methodologies: Agile/Scrum, Waterfall, Test Driven Development
Cloud & Version control: AWS (API Gateway, Lambda, DynamoDB, EC2, S3, CloudFormation, CloudWatch)

Work Experience

HCL Tech, USA **Mar 2025 – Present**
Java Full Stack Developer

- Engineered and deployed microservices architecture using Spring Boot and Spring Data JPA integrated with PostgreSQL, achieving a 30% reduction in query latency and significantly improving backend data retrieval performance.
- Developed and optimized RESTful APIs and asynchronous AJAX workflows to streamline client-server communication, enhancing user responsiveness and reducing average request processing time across distributed systems.
- Built interactive, responsive UI components using React and Angular, integrating them with RESTful microservices to deliver seamless, dynamic user experiences.
- Implemented AWS cloud components such as API Gateway, S3, and Lambda for automated data processing, improving application scalability, resilience, and reducing operational maintenance overhead.
- Conducted performance tuning on Java-based microservices, achieving 40% throughput improvement through optimized SQL queries, caching mechanisms, and fine-tuned AWS integration.
- Deployed and managed Java applications in Kubernetes clusters, utilizing auto-scaling and load balancing to improve availability and reduce downtime during peak traffic by 35%.
- Designed comprehensive unit and integration test suites using JUnit and Mockito, ensuring high coverage, early bug detection, and 40% reduction in production-level issues across deployments.

KPIT, India **Sep 2020 – Nov 2023**
Java Full Stack Developer

- Designed and implemented secure enterprise web applications using Spring MVC, Angular and React, integrating strong authentication and authorization layers with Spring Security to protect sensitive data.
- Integrated Apache Kafka for real-time message streaming between distributed services, enhancing system responsiveness, scalability, and enabling event-driven architecture within production-grade environments.
- Contributed to Agile processes through sprint planning, retrospectives, and daily scrums, increasing development cycle efficiency by 30% and ensuring consistent delivery of high-quality software increments.
- Architected and optimized AWS S3-based storage systems, achieving 25% reduction in data access latency while ensuring cost-effective, durable, and scalable data storage for critical enterprise workloads.
- Deployed Java-based applications on AWS EC2 with auto-scaling and monitoring, achieving 35% improvement in uptime and application performance across multi-region environments.
- Automated CI/CD pipelines using Jenkins, Docker, and AWS integrations, reducing manual deployment errors by 40% and ensuring seamless, consistent, and faster release cycles.
- Containerized microservices using Docker for isolated, reusable environments and collaborated with DevOps teams to optimize PostgreSQL queries, reducing setup time by 45% and enhancing overall deployment efficiency.
- Implemented monitoring and logging solutions using AWS CloudWatch and ELK Stack, proactively identifying performance bottlenecks, improving system reliability, and reducing application downtime incidents by 30%.