Sai Krishna Madala Software Engineer

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Profile

Software Engineer with 4+ years of experience building scalable full-stack applications using Java, Spring Boot, Kafka, and AWS. Proven ability to architect microservices using object-oriented design and design patterns, perform structured code reviews, optimize performance, deploy cloud infrastructure, and implement CI/CD pipelines. Demonstrates a strong foundation in Data Structures, Algorithms, clean code principles, problem-solving, and Agile methodologies.

Skills

Front-end Technologies: HTML5, CSS3, JavaScript, Angular, React.js, Bootstrap, jQuery, AJAX, Redux

Back-end Technologies: Java, Spring Boot, Spring MVC, Hibernate, JPA, JSF, RESTful APIs, Maven, Microservices

Database: PostgreSQL, MySQL, MongoDB, SQL Server, Oracle.

DevOps & Tools: Docker, Kubernetes, Git, Visual Studio Code, JIRA, CI/CD Pipelines, Apache, Nginx, Swagger, Postman, Jenkins,

GitLab,

Testing: JUnit, Selenium, Mockito Methodologies: Agile, Scrum, SDLC

Software Engineering Practices: Code Reviews, Design Patterns, Object-Oriented Design (OOD), SOLID Principles, Clean Code,

Load Balancing

Cloud Technology: AWS (EC2, S3, RDS), Microsoft Azure

Professional Experience

Software Engineer, Jefferies

03/2024-Present | New York, USA

- Architected and built a Kafka-backed microservices pipeline in Spring Boot to stream and persist over 10M records/day to PostgreSQL, increasing data throughput by 20% and enabling real-time analytics.
- Automated batch data extraction and SFTP report delivery to PeopleSoft, eliminating 5+ hours/week of manual work and achieving 100% SLA compliance.
- Designed resilient, fault-tolerant system architecture using OOD and SOLID principles and applied Factory and Observer patterns to support rapid feature scaling.
- Led API contract alignment and service boundary reviews across teams, reducing integration bugs by 25% and accelerating delivery timelines.
- Mentored 3+ junior developers and introduced structured peer code reviews, improving test coverage by 40% and reducing code rework by 30%.
- Deployed and scaled cloud-native services on AWS (EC2, S3, RDS) using Docker and Kubernetes, improving uptime to 99.99% with auto-scaling under peak load.
- Developed modular and reusable front-end components using React.js and Redux, improving code maintainability and reducing feature delivery time by 30%.

Software Engineer, Popcornapps

10/2019 - 05/2022 | Hyderabad, India

- Delivered modern UIs for an e-commerce platform using Angular, Redux, and Java, accelerating customer engagement by 25%.
- Boosted Oracle query performance by 30% through SQL tuning and indexing, accelerating backend data delivery.
- Designed RESTful APIs in Spring Boot applying OOD and design patterns (Factory, Singleton), improving modularity and scalability by 35%.
- Mentored junior developers and led code reviews to enforce clean architecture principles, cutting delivery time by 20%.
- Containerized backend services with Docker and orchestrated deployment using Kubernetes, reducing release complexity and increasing deployment speed by 40%.
- Implemented CI/CD workflows using Jenkins and Maven with integrated JUnit and Selenium tests, lowering production defects by 50%.
- Modernized legacy systems by migrating workloads to AWS, improving uptime by 30%, accelerating customer engagement by 25%.

Education

Master of Science, Auburn University at Montgomery, Computer Science

06/2022 – 12/2023 | Montgomery, AL, USA

Relevant Courses: Data Structures, Algorithms, Distributed Systems, Database Systems