

Vaibhav Somani

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Experience

Senior Software Engineer, Walmart Global Tech, Bengaluru July 2018 – Current

- Designed and implemented microservices architecture, reducing inter-service dependency by 40% and enabling independent deployment of 10+ business-critical modules, resulting in a 30% faster release cycle.
- Led and mentored a team of 4+ junior developers, resulting in a 25% improvement in feature delivery timelines and fostering better code quality through regular code reviews and knowledge sharing sessions.
- Built and managed Jenkins-based CI/CD pipelines, automating build, test, and deployment processes, which reduced manual deployment time by 70% and improved release frequency from bi-weekly to weekly.
- Developed comprehensive unit and integration tests using JUnit and Mockito, increasing backend code coverage to 87%, significantly reducing post-deployment bugs by 25%.
- Monitored and troubleshooted production issues using Splunk, Prometheus, and xMatters, achieving a 40% reduction in mean time to resolution (MTTR) and improving system uptime to 99.95%.

Projects

Member Care Center

- Designed and developed secure, scalable RESTful APIs using Java, Spring Boot, and MySQL to enable customer service agents to efficiently resolve member-related queries.
- Ensured secure access to member data by implementing OAuth2 authentication, role-based access control (RBAC), and detailed API documentation using Swagger/OpenAPI.
- Improved agent efficiency by reducing data retrieval latency by 30%, which led to a measurable 15% increase in customer satisfaction scores.

On-demand Reporting Platform

- Developed a high-performance, low-latency real-time reporting application using Java, Spring Boot, and Spark, enabling Walmart.com 3P sellers to seamlessly access onboarding and performance reports.
- Designed scalable data processing pipelines capable of handling 100K+ concurrent seller requests, ensuring real-time data availability with minimal lag.
- Optimized database queries using advanced indexing, query refactoring, and leveraged Redis-based caching, leading to a 45% improvement in data access speed.

SmartComm 2.0

- Architected and implemented a scalable, event-driven communication platform for Walmart.com, capable of processing millions of notifications and alerts per day.
- Built resilient microservices using Java, Spring Boot, Kafka (for asynchronous messaging), and containerized the services using Docker for improved deployment efficiency.
- Achieved 99.99% system uptime and reduced message delivery latency by 20% by implementing retry mechanisms, dead-letter queues, and load balancing.

Skills

Languages: Java, JavaScript, Python, Scala

Frameworks and Technologies: Spring Boot, Kafka, React, Typescript, Docker, Spark, Redis

Database and Cloud Services: SQL, NoSQL, Azure, GCP, AWS

Tools: Splunk, xMatters, Jenkins

Education

University of Florida, MS in Computer Science

Aug 2016 – May 2018

University of Mumbai, BE in Computer Engineering

July 2012 – April 2016