

# JEFFREY JOSE

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## PROFESSIONAL EXPERIENCE

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### Senior Software Engineer

Jio Platforms Ltd

Apr 2022 - Present

*Bengaluru, Karnataka*

- Designed and architected scalable batch processing system for user group management using Spring Batch with optimized data partitioning, achieving 3x speed-up in program execution and enabling the service to handle 10x larger datasets while maintaining system reliability and performance.
- Led system design and architecture for converting monolithic promotion/coupon management system into a generic multi-tenant microservice, enabling seamless integration across all Jio B2B verticals and supporting distributed deployment patterns.
- Designed and implemented distributed order management system architecture in collaboration with central platform team and Fynd, utilizing reactive programming with Spring WebFlux and Project Reactor to handle 50,000+ concurrent requests, achieving 40% reduction in response time and supporting 5x higher throughput compared to traditional blocking approaches.
- Architected and developed multithreaded enterprise migration utility with distributed system design, integrating multiple telecommunication systems (SIP, HSS, BTAS, and ESBC) to automate mobility-to-enterprise number migration, reducing manual processing time from 2 hours to 15 minutes per 1000-number batch and improving business processing efficiency by 85%.
- Established technical leadership practices including code review processes, system design documentation, and mentored team of 4 junior developers, improving code quality metrics by 60% and reducing production incidents by 45%.

### Software Engineer

Jio Platforms Ltd

Jul 2019 - Apr 2022

*Bengaluru, Karnataka*

- Designed and delivered scalable REST APIs for Jio Prime Merchant (B2B side of JioMart) handling 100,000+ daily transactions, implementing comprehensive unit and component testing strategies to meet business requirements for functionality, scalability and performance optimization.
- Led technical modernization through systematic revision, modularization, and refactoring of legacy monolithic codebase into clean, maintainable microservices architecture with 80% test coverage and zero code smells, significantly enhancing product development velocity by 50% and code quality.
- Collaborated with infrastructure team to architect and configure zero-downtime CI/CD deployment pipelines using Azure DevOps, implementing blue-green deployment strategies that improved deployment speed by 70% and system stability with 99.9% uptime.
- Designed and integrated Liquibase-based database schema management system for distributed environments, ensuring consistency across multiple database instances and enabling reliable rollback mechanisms with automated migration scripts.
- Provided technical leadership through mentoring 6+ new recruits with structured sessions on clean code principles, legacy system refactoring strategies, and agile development best practices.

## CORE COMPETENCIES

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**Technical Leadership:** System design, distributed architecture, cross-functional team collaboration, technical mentoring

**System Architecture:** Microservices design, scalable backend systems, reactive programming, event-driven architecture

**Performance Engineering:** Database optimization, caching strategies, load balancing, concurrent processing

**DevOps & Reliability:** CI/CD pipelines, zero-downtime deployments, monitoring, incident response, SLA management

## TECHNICAL SKILLS

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- **Programming Languages:** Java, SQL
- **Frameworks & Libraries:** Spring, Spring Boot, Spring WebFlux, Project Reactor, Hibernate
- **Databases:** MongoDB, PostgreSQL, Redis, Elasticsearch
- **Distributed Systems:** Apache Kafka, Microservices Architecture, Event-Driven Systems
- **DevOps & Cloud:** Kubernetes, GCP, Azure DevOps, CI/CD Pipelines, Docker
- **Testing & Quality:** JUnit-Mockito, Test-Driven Development, Code Review Processes

## ACHIEVEMENTS

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- Designed and implemented distributed systems handling 50,000+ concurrent requests with 99.9% uptime
- Led technical modernization projects affecting 100,000+ daily active users with zero-downtime migrations
- Presented Spotlight Award for Q1 of 2022 for technical excellence in system architecture and performance optimization
- Reduced infrastructure processing time by 85% through innovative multithreaded system design
- Secured All India rank 170 for GATE 2017 among 200,000+ candidates
- Coordinated Tech Fest as Association Secretary of Computer Science Department in 2016

## EDUCATION

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**M.Tech Computer Science & Engineering**, IIT Kharagpur

Jun 2017- May 2019

M.Tech Thesis : Unsupervised Iterative Clustering of Hybrid Polarimetric SAR Images

Guided by: Dr. Jayanta Mukhopadhyay (CSE Dept, IIT Kharagpur)

Description: Cluster hybrid polarized SAR image in an unsupervised way into physically meaningful classes.

**B.Tech Computer Science & Engineering**, Govt. College of Engg Kannur

Jun 2012- May 2016

## PROJECTS

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- **Detection of Forest Area in SAR images**  
Detect and classify forest areas in polSAR RISAT-1 images.
- **Graph-based Document Summarization**  
Generate summary of word documents using graph-based approaches like text-rank, degree-centrality.
- **Emotional Intelligence in Social Media**  
Analysed Emotional Intelligence of people in twitter based on gender according to tweets posted on sensitive topics.
- **Chat Platform**  
A full-stack real-time chat application with enterprise-grade architecture, featuring Spring Boot backend, React TypeScript frontend, WebSocket communication, and microservices design with comprehensive CI/CD pipeline.