

Satyam Singh

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Profile Summary

Backend Engineer with 5+ years of experience building scalable, high-performance fintech and distributed systems using Java and Spring Boot. Expert in designing microservices, event-driven architectures, and high-throughput systems using Kafka, Redis, and PostgreSQL. Proven track record of improving system performance, ensuring data consistency, and building fault-tolerant financial systems.

Skills

- **Languages & Frameworks:** Java, Spring Boot, Spring Security, JPA, Hibernate
- **Databases & Messaging:** PostgreSQL, MySQL, Redis, Kafka, Debezium
- **Cloud & DevOps:** Docker, Kubernetes, GCP (GKE), AWS (EC2, S3), CI/CD (Jenkins)
- **System Design:** Microservices, Event-Driven Architecture, Distributed Systems, Concurrency, Caching, Circuit Breaker
- **AI Tools:** Github copilot, claude, chatGPT

Experience(5+ Yrs)

Software Engineer Priority IDC | Fintech 01/2025 - Current

- Designed and implemented Target Balance Account (TBA) system handling ~2K–5K transactions/sec during peak loads
- Built event-driven architecture using Kafka & Debezium processing ~1M+ events/day for real-time data synchronization
- Reduced API response time by ~30–40% using Redis caching and optimized DB queries
- Improved system throughput by ~25% using multithreading and concurrency optimizations
- Ensured strong consistency with <0.01% failure rate in transaction processing
- Mentored junior developers and conducted code reviews to improve code quality

Software Engineer 17Live Inc. | Social Media 02/2022 - 01/2025

- Built recommendation backend serving ~100K+ daily active users with real-time personalization
- Processed ~500K–1M events/day using Kafka for user activity tracking
- Reduced recommendation latency by ~35% through optimized data pipelines
- Designed load balancer microservice handling ~10K+ requests/min across distributed services
- Reduced infrastructure cost by ~20% via efficient GPU utilization monitoring
- Enabled auto-scaling based on custom metrics, improving resource utilization by ~30%

SDE (MG01A) Paytm | Fintech 01/2021 - 02/2022

- Developed ledger service handling ~1M+ transactions/day with ACID compliance
- Reduced query latency by ~40% using indexing and Redis caching
- Implemented cursor-based pagination improving performance by ~50% for large datasets

Projects

- Built scalable P2P digital wallet platform using microservices architecture supporting real-time money transfers
 - Orchestrated Saga-based distributed transactions across wallet, transaction, and payment services, implementing a double-entry ledger to ensure strong financial consistency
 - Developed fraud detection module with rule-based validation to identify suspicious transactions in real-time
 - Implemented secure authentication and authorization using OAuth2, JWT, and API Gateway
 - Integrated multi-channel notification system (email/SMS) for transaction updates
 - Ensured high availability and fault tolerance using service discovery (Eureka) and circuit breaker patterns
- GitHub:** [DeezyWallet](#) | **Architecture Diagram:** [HLD](#)

Education

B.Tech | Information Technology | 82.9%

NIET, Gr.Noida

2017 - 2021