

Nitin Anand

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Professional Summary

Backend Engineer with 4+ years of experience building **scalable distributed systems and microservices** using Java and Spring Boot. Strong expertise in **high-availability systems, event-driven architectures, and secure document workflows**. Proven track record of improving **performance, reliability, and system scalability** in production environments.

Technical Skills

- **Languages:** Java (8–21), SQL, TypeScript, JavaScript
- **Frameworks:** Spring Boot, Spring MVC, Spring Data JPA, Hibernate, JAX-RS, React
- **Architecture:** Microservices, Distributed Systems, Event-driven Systems, Concurrency, Multi-tenancy
- **Databases:** MySQL, PostgreSQL, MongoDB, SQL Server, Redis
- **Messaging & Scheduling:** Kafka, Quartz Scheduler
- **Security:** OAuth2, OIDC, JWT, Keycloak, bcrypt
- **Cloud & DevOps:** AWS (EC2, S3, Lambda, Elastic Beanstalk), Docker, Kubernetes, Jenkins
- **Tools & Others:** Git, Maven, JUnit, Mockito, Postman, Talend, REST APIs, JSON

Experience

VirtueTech Services Pvt. Ltd.

Feb 2025 – Present

Full Stack Developer (Backend-focused) | SelfieSign (E-Sign Platform)

Bengaluru

- Re-architecting a legacy **PHP-based digital signature platform** into a **Java Spring Boot architecture**, designing core modules for template management, document lifecycle, and signing workflows.
- Designed a **multi-tenant architecture** with tenant context isolation, enabling secure handling of multiple organizations with independent authentication and configurations.
- Implemented **OAuth2/OIDC-based authentication** using Keycloak with **SSO (Google, Apple)** and secure password hashing using bcrypt via Spring Security.
- Built a **high-performance document and video signing pipeline**, optimizing processing using parallel execution and efficient I/O handling to achieve **sub-second latency** under concurrent usage.
- Ensured compliance with **eIDAS and XAdES standards**, focusing on secure digital signatures and data integrity.
- Developed platform features including **API key management, email notification services**, and containerized deployment using Docker.

Country Delight

Jan 2023 – Jul 2024

Software Engineer – Backend

Gurugram

- Designed and developed a **gamification microservice** using Spring Boot, handling **100K+ daily active users** and processing **1M+ reward evaluations/day**, ensuring efficient reward computation and state management.
- Built a **Kafka-based event-driven notification system**, enabling scalable delivery of **millions of notifications/day** (SMS, push, WhatsApp) by decoupling producers and consumers.
- Developed **Quartz-based schedulers** for membership expiry notifications, resolving frequent missed-notification issues and improving delivery reliability to **>99% on-time execution**.
- Improved reliability of **autopay workflows** by fixing JPA transaction issues and implementing idempotent retry mechanisms, preventing duplicate transactions and ensuring consistency in distributed systems.

- Implemented **Spring Cache with Redis** for frequently accessed APIs, reducing database load by **40%+** and improving response latency by **30–40%** under peak traffic conditions.
- Built a **scheduler monitoring system** using Slack webhooks for failure alerts and leveraged **AWS services (EC2, S3, Lambda, Beanstalk)** for scalable deployment and background processing.

Nuvama Wealth & Investment Ltd.

Aug 2021 – Dec 2022

Software Engineer – Java & Database Developer

Bengaluru

- Maintained and enhanced legacy **JAX-RS backend services** in a high-throughput trading system handling **5K–10K+ market data updates/sec**, improving system stability and understanding of real-time workflows.
- Contributed to migration of legacy services to **Spring Boot microservices**, improving maintainability and reducing average API response time by **20–25%**.
- Designed and optimized **database systems (PostgreSQL, MongoDB, SQL Server)**, including writing complex stored procedures, improving query execution time by **30%+** for critical operations.
- Implemented **multithreading and concurrency control** using thread pools and optimized data structures, reducing processing latency by **25–30%** under high-load trading scenarios.
- Integrated **Redis caching** for frequently accessed market data, reducing database hits by **40%+** and ensuring low-latency data access during peak trading hours.
- Developed **ETL pipelines using Talend** to process **millions of records/day** and supported deployments using **Docker, Kubernetes, and Jenkins CI/CD** for scalable and reliable releases.

Projects

- Developed a **personal portfolio application** using React, TypeScript, and Express.js, demonstrating end-to-end full-stack development.
- Designed frontend UI and backend APIs for dynamic content rendering and integration.
- Deployed publicly: nitin1902-portfolio.in

Education

BMS Institute of Technology and Management

B.E. in Computer Science (CGPA: 7.8)

2017 – 2021

Bengaluru