

Avinash Upadhyay

Senior Software Engineer

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Summary

Senior Software Engineer with over 6 years of experience architecting Java-based microservices and Kafka-driven pipelines, reducing API response times by 30% using Redis caching. Proficient in Spring Boot, PostgreSQL, and CI/CD with Jenkins, Docker, and Kubernetes. Led secure integrations for Salesforce and Mulesoft, processing 1M+ daily transactions in Agile environments. Certified in AWS and EY IT Architecture, delivering scalable solutions for enterprise platforms.

Experience

Senior Software Engineer

TELUS Digital, Noida, India

Sep 2024 – Present

- Architected Java 17 and Spring Boot 3.x microservices for Charter Communications, integrating Salesforce, OIS, Mulesoft, and apps for 10+ clients, processing 1M+ daily transactions with Spring Security.
- Designed Kafka-based event-driven systems (Schema Registry, Avro) with Quartz Scheduler for real-time Salesforce data publishing, handling 500K+ events daily and boosting uptime by 15%.
- Developed asynchronous APIs using Spring WebFlux, PostgreSQL, Hibernate, and JPA, reducing request times in multi-environment setups.
- Implemented Redis caching to optimize responses and cut database load by 30%, enabling scalable real-time workflows.
- Built resilient microservices communication with Spring Cloud (Feign, Resilience4j, Eureka, Config Server), RabbitMQ, and Lombok for fault-tolerant architectures.
- Automated CI/CD with Jenkins, Maven, Docker, Kubernetes, and Git, achieving 4x faster deployments.
- Ensured quality via JUnit, Mockito, TestContainers, WireMock, Postman, JaCoCo, and SonarQube (90%+ coverage); integrated Splunk, Kibana, Grafana, Prometheus, Sleuth, and Zipkin for monitoring, resolving 95% issues within SLAs and reducing manual processing by 25%.

Technology Consultant

Ernst & Young, Gurugram, India

Sep 2022 – Aug 2024

- Developed PARIVESH 2.0 workflow app using Spring Boot, Spring Cloud, and Java 1.8 microservices, supporting 500+ daily environmental clearance proposals across authorities.
- Implemented custom Flowable engine for dynamic workflows and roles, cutting approval times by 20%.
- Built scalable backend with PostgreSQL, Hibernate, and Kafka for efficient data handling in high-volume systems.
- Designed RESTful APIs and integrated NSW/Union Bank services for single-window access, secure payments (10K+ monthly transactions), and streamlined processes.
- Developed SMTP/MIME-based notification services for email/SMS, achieving 99.9% delivery reliability.
- Managed Docker/Jenkins CI/CD and Kibana monitoring for robust deployments and quick issue resolution.

Software Developer

Velocis Systems Pvt. Ltd., New Delhi, India

Apr 2021 – Aug 2022

- Developed VAHAN 4.0 web apps for MORTH, gathering nationwide RTO requirements to handle 5K+ daily user interactions.
- Migrated legacy code to Java 1.8, Spring Boot microservices, and REST APIs, improving performance by 25% and RTO data functionality.

- Designed JSF/PrimeFaces interfaces with Core Java, optimizing legacy elements to reduce response times by 15%.
- Streamlined PostgreSQL database and RabbitMQ workflows for extensive RTO datasets, achieving 99.8% uptime.

Software Associate

Optus Infotech Pvt. Ltd., Hyderabad, India

Sep 2019 – Mar 2021

- Developed gaming-focused web applications with RESTful APIs, supporting 100K+ user interactions monthly.
- Designed and tested RESTful APIs and managed PostgreSQL for large datasets, handling 50K+ records daily.

Industrial Trainee

National Informatics Centre (NIC), New Delhi, India

May 2018 – Aug 2018

- Migrated CONFONET system from IBM DB2 to PostgreSQL, ensuring zero downtime during live upgrades.

Technical Skills

- **Programming Languages:** Java, JavaScript, SQL
- **Frameworks & Libraries:** Spring Boot, Spring Cloud, Spring Security, Flowable, JSP, PrimeFaces
- **Databases & Caching:** PostgreSQL, MySQL, MongoDB, Redis, RabbitMQ, Kafka
- **Testing & QA:** JUnit, Mockito, TestContainers, WireMock, Selenium WebDriver, TestNG, Postman
- **DevOps & Tools:** Jenkins, Docker, Kubernetes, AWS, Swagger, Prometheus, Grafana, Splunk, Zipkin, Sleuth
- **IDEs & Productivity:** IntelliJ IDEA, Eclipse, VS Code, Cursor AI, GitHub, JIRA, Notion
- **Certifications:** [EY IT Architecture Certification](#) (2023), [EY Cloud Certification](#) (2023), [Microsoft Azure Fundamentals](#) (2022)

Education

B.Tech, Instrumentation and Control Engineering

GGSIU, New Delhi

Aug 2014 – Jun 2018