

AMBUJ RAJPUT

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CAREER SUMMARY

Experienced software engineer with 10+ years of experience in designing scalable Java backend systems using Spring Boot, Kafka, and AWS. Proficient in microservices, distributed systems, and event-driven architectures. Successful background in Fintech, Banking, and Gaming industries. Demonstrated ability to mentor engineers and enhance technical proficiency through collaboration with stakeholders.

TECHNICAL SKILLS

Languages & Frameworks: Java, Spring Boot, Spring Batch, Spring Security, Spring Cloud, Spring WebFlux, Hibernate

Architecture & Design: Microservices Architecture, Distributed Systems, Event-Driven Architecture, System Design, SOLID Principles, Design Patterns (Factory, Singleton, Strategy, Observer, Builder)

Databases & Caching: PostgreSQL, Oracle, MySQL, MongoDB, Redis, Memcached, SQL Optimization, Database Design

Event-Driven & Messaging: Apache Kafka, IBM MQ, Spring Cloud Stream, Message Queues, Event Processing

Cloud & DevOps: AWS (EC2, S3, Lambda, RDS), Pivotal Cloud Foundry, Docker, Kubernetes, CI/CD Pipelines, Jenkins, GitHub, Maven, Git

Monitoring & Observability: Splunk, Dynatrace, Prometheus, Grafana, Micrometer, Distributed Tracing

Testing & Code Quality: JUnit, Mockito, RestAssured, Gatling, SonarQube, Checkmarx, Black Duck, TDD

Security & Additional: OAuth, JWT, mTLS, gRPC, Protobuf, REST APIs, Agile/Scrum

AI & Developer Productivity: Spring AI, RAG (Retrieval-Augmented Generation), MCP (Model Context Protocol), LLM Integration, Prompt Engineering, AI-assisted SDLC

PROFESSIONAL EXPERIENCE

HCL AMERICA | CLIENT - MASTERCARD | Senior Software Engineer | O'Fallon, MO

Nov 2021 – present

Account Catalog Interface & Universal Specification Processor - Architected microservices-based APIs enabling seamless PAN registration and data integration across customer systems.

- Designed and developed Spring Boot RESTful APIs integrated with API Gateway and Akamai CDN, processing 100K+ daily requests with 99.9% uptime for customer onboarding services.
- Built event-driven architecture using Apache Kafka, implementing RBAC with OAuth2 to securely propagate financial transaction data across distributed microservices.
- Optimized Spring Batch processing pipelines, reducing execution time by 20% and improving system reliability through automated testing achieving 95%+ test coverage.
- Implemented resilience patterns including retries, timeouts, and idempotent API design to ensure fault-tolerant processing of high-volume financial transactions.
- Enhanced observability using Splunk, Dynatrace, Micrometer, and Prometheus, reducing MTTR by 25% and improving proactive monitoring across microservices.
- Designed and maintained OpenAPI/Swagger specifications for REST services, enabling standardized API documentation, contract validation, and cross-team integration.
- Optimized Kafka topic configuration, partition strategies, and consumer group scaling to support reliable high-throughput event streaming across services.
- Led adoption of Spring AI and Retrieval-Augmented Generation (RAG) enabling contextual analysis of PCF and Splunk logs directly within IntelliJ using MCP integrations, reducing debugging time by 30%.
- Mentored engineers and introduced AI-assisted development workflows using GitHub Copilot Enterprise, improving development productivity by 25% while maintaining code quality standards.

Technologies: Java, Spring Boot, Spring Batch, Apache Kafka, IBM MQ, PostgreSQL, Redis, OAuth, mTLS, Protobuf, gRPC, JUnit, Mockito, Maven, Pivotal Cloud Foundry (PCF), AWS, Splunk, Dynatrace, Checkmarx, Git, Jenkins

INGENUITY GAMING | Technical Lead | Noida, India

May 2019 – Nov 2021

Remote Gaming Service: Led backend development for casino platforms, delivering scalable and high-performance solutions for online slot and table games.

- Engineered a scalable microservices-based backend using Spring Boot and Docker, supporting 1,000+ concurrent users with 99.9% uptime.
- Conducted technical design and requirement analysis, delivering 5+ games ahead of schedule, enhancing client delivery timelines.
- Implemented Splunk and Dynatrace for real-time monitoring, reducing incident response time by 20% and improving system reliability.
- Led code reviews using SonarQube, ensuring 90%+ code quality compliance and reducing technical debt by 15%.

Technologies: Java, Spring Boot, Apache Kafka, MongoDB, Redis Cache, JWT, OAuth, Keycloak, OpenID Connect, Docker, PCF, JUnit, Mockito, Maven, GitHub, Splunk, Dynatrace, SonarQube, Jenkins

SOPRA BANKING SOFTWARE | Module Lead | Noida, India

Jul 2018 – May 2019

Lending/Leasing Banking Product: Developed and optimized backend modules for lending and leasing solutions, enabling efficient processing of financial transactions for banking clients.

- Engineered Spring Batch workflows to process thousands of transactions daily, reducing data processing time by 25% and improving system throughput.
- Mentored small team of developers, providing technical guidance and code reviews, increasing team productivity by 20%.
- Conducted code and quality reviews using Checkmarx and SonarQube, ensuring 100% compliance with security and coding standards.
- Authored technical design documents, streamlining development processes and reducing design phase time by 15%.
- Implemented Apache Kafka for real-time event streaming, enhancing data integration with external systems.

Technologies: Java, Spring Framework, Spring Batch, Apache Kafka, AWS (EC2, S3), Oracle, JUnit, Mockito, Maven, Jenkins, Splunk, Dynatrace, Checkmarx, SonarQube, Git

INGENUITY GAMING | Software Engineer | Noida, India

Nov 2013 – Jun 2018

Casino Games & Remote Gaming Service: Built backend services for online slot and table games.

- Developed RESTful APIs with Spring Boot to ensure high availability for gaming services.
- Integrated Apache Kafka for real-time event processing, improving system responsiveness.
- Collaborated on technical design to deliver more than three games on schedule.
- Conducted code reviews to enhance code maintainability.

Technologies: Java, JavaScript, Google Web Toolkit, Spring Boot, PostgreSQL, Apache Kafka, JUnit, and GitHub.

CRUX INFOTECH | Software Engineer | Delhi, India

Aug 2012 – Sep 2013

Online Food Chain Management System: Designed and developed backend services for an order processing system, enhancing operational efficiency for a food chain management platform.

- Developed robust backend services using Java Servlets and JSP, reducing order processing time by 25% through optimized request handling.
- Conducted detailed requirement analysis, collaborating with stakeholders to align system functionality with client needs
- Implemented MySQL database schemas and optimized queries, improving data retrieval performance by 30%.
- Integrated JavaScript and HTML for dynamic front-end components, enhancing user experience for order tracking features.
- Utilized Maven for build automation, streamlining development and deployment processes

Technologies: Java, Servlets, JSP, JavaScript, HTML, MySQL, Maven, JDBC, Apache Tomcat

EDUCATION

PG DIPLOMA | Computer Science | CDAC – Centre for Development and Computing, India

2011 – 2012

BACHELOR OF TECHNOLOGY | Information Technology | Uttar Pradesh Technical University

2007 – 2011