

Buddhaprakash Patil

Backend Developer — Java & Spring Boot

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Summary

Backend Developer with 3+ years of experience designing distributed systems and microservices using Java, Spring Boot, and AWS. Proven track record in building event-driven architectures, optimizing ETL pipelines, and implementing secure payment processing systems with Kafka, Redis, and REST APIs.

Technical Skills

- **Languages:** Java, C++, Python
- **Frameworks & Libraries:** Spring Boot, Spring Batch, Spring Security, Spring MVC, Hibernate/JPA, Angular, REST APIs, GraphQL
- **Cloud & DevOps:** AWS (S3, EC2, IAM, SNS, SQS), Docker, Kubernetes, Jenkins, GitHub Actions, GitLab CI/CD
- **Databases & Messaging:** PostgreSQL, MySQL, MongoDB (NoSQL), Redis, Apache Kafka, Snowflake, SQL
- **Tools:** Git, Swagger, Postman, JIRA, Confluence, Maven
- **Testing:** JUnit, Mockito, Test-Driven Development (TDD)
- **Concepts:** Microservices Architecture, Event-Driven Architecture, Distributed Systems, Scalability, High Availability, Resiliency Patterns, Circuit Breaker, Design Patterns, Secure Coding, RESTful API Design, Caching, Multi-threading, System Design, High-Level Design (HLD) & Low-Level Design (LLD), SOLID Principles, Java Streams API, Functional Programming, CI/CD, Agile/Scrum

Experience

Amdocs, Pune, India

Dec 2023 – Present

Software Developer

- Developed a secure, regulation-compliant payment processing system using Java and Spring Boot, leveraging Postman for rigorous testing of JSON-based REST API request and response payloads, boosting overall transaction reliability by 20%.
- Architected and developed an AWS S3-based reporting microservice that generates usage reports from database queries, stores them in S3 buckets, and provides downloadable CSV links consumed by frontend teams.
- Leveraged AWS S3, EC2, IAM, SNS, and SQS to build an event-driven architecture with automated workflow automation, collaborating with frontend and data teams (cross-functional collaboration) and strengthening observability through CloudWatch metrics and structured logs.
- Built secure authentication services for new client integrations, implementing token generation using company ID and secret, storing tokens in Redis for reuse, and enabling client API calls with injected headers (x-authorization, authorization, x-auth-originator).
- Embedded Redis-based session validations and data fencing to enforce request ownership checks and prevent unauthorized API access, improving authentication flow reliability.
- Developed a POP token generator with a configurable retry mechanism and custom exception handling, applying circuit-breaker patterns to improve resiliency under partial API failures.
- Designed and optimized Spring Batch ETL jobs ingesting data from QuantumOS Snowflake into PostgreSQL, applying rigorous problem-solving and system design techniques to reduce ingestion failures via input validation and retry logic.
- Improved ETL job runtime through SQL query tuning, partitioning, and parallel processing, cutting peak run times significantly; tracked job performance metrics to drive iterative reliability improvements.
- Built a Jenkins CI/CD plugin proof-of-concept, containerized the solution with Docker and orchestrated deployments on Kubernetes, and delivered the feature within an Agile sprint, automating the download of shared frontend/backend artifacts from BitBucket during the Maven build lifecycle, thereby reducing manual effort across multiple microservices.
- Designed partitioned API integrations using WebClient and CompletableFuture for high-throughput requests, improving external API response times in user-critical, distributed microservice workflows.
- Designed and implemented a high-performance NoSQL data modeling solution using Redis, optimizing token storage and session validations to reduce database load and achieve a 35% improvement.
- Developed and maintained cloud-native applications using Java Spring Boot, Docker containers, and Kubernetes orchestration on AWS, establishing CI/CD pipelines and working in cross-functional collaboration with product and operations teams to implement business workflows and orchestration, resulting in improved system efficiency and scalability.
- Managed source-code repository using Git, establishing branching strategies, conducting peer code reviews, and ensuring version-control integrity across all microservice projects.
- Designed and implemented high-throughput Kafka producers and consumers to facilitate real-time event streaming between microservices, ensuring data consistency and low-latency communication across the payment processing ecosystem.

Education

Bharati Vidyapeeth's College of Engineering, Pune

2019 – 2023

B.E., Computer Engineering CGPA: 8.24

Languages

English (Full Professional), Hindi (Bilingual), Marathi (Native)