

Murillo Marques

Backend Developer

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Professional Summary

Backend Developer with 2+ years of experience in building distributed systems and scalable microservices using Java, Spring Boot, and AWS. Hands-on experience with messaging (RabbitMQ/Kafka), OAuth2/JWT authentication, rate limiting, and event-driven architecture.

Experienced in designing resilient, high-performance, and secure systems, applying best practices such as SOLID, Clean Code, TDD, and DDD. AWS Certified Cloud Practitioner.

Technical Skills

Languages & Frameworks

Java 8+, Spring Boot, Spring Cloud, Spring Security

Architecture & Practices

Microservices, Hexagonal Architecture, DDD, TDD, BDD, SOLID, Clean Code

Saga, Circuit Breaker, Rate Limiting

Messaging & Integration

RabbitMQ, Kafka

Testing

JUnit 5, Mockito, TestContainers, WireMock, REST Assured

Databases

MySQL, PostgreSQL, MongoDB, DynamoDB, Redis

Cloud & DevOps

AWS (S3, EC2, SQS, SNS, Lambda, API Gateway, CloudWatch, Secrets Manager)

Docker, Docker Compose, GitHub Actions, Jenkins

Observability & Tools

Prometheus, Grafana, Datadog, Graylog, SonarQube, Swagger/OpenAPI

Languages

English: Advanced (C1)

Professional Experience

Software Engineer – Tokio Marine - Sep/2025 – Present

- Developed microservices using Java and Spring Boot following hexagonal architecture
- Implemented resilience patterns (Retry and Circuit Breaker) using Resilience4j
- Applied caching strategies with Redis, reducing latency and improving performance
- Implemented rate limiting mechanisms to protect and stabilize APIs
- Designed and modeled distributed system architectures
- Integrated AWS services (S3, EC2, SQS, Secrets Manager, DocumentDB)
- Implemented and maintained CI/CD pipelines using Jenkins
- Monitored systems using Datadog, Grafana, and Graylog
- Developed unit and integration tests (JUnit, Mockito, TestContainers)
- Documented APIs using Swagger/OpenAPI

Backend Developer – Freelancer - Jun/2024 – Aug/2025

- Developed scalable REST APIs focusing on security, performance, and low latency
- Integrated AWS services to improve scalability and cost efficiency
- Implemented messaging with Kafka and RabbitMQ for asynchronous communication
- Used Redis for caching, reducing latency and improving performance
- Developed automated and integration tests ensuring system reliability
- Monitored systems using Prometheus and Grafana
- Documented APIs using Swagger/OpenAPI

Projects

Credit Analysis and Loan Approval System

www.github.com/MurilloMarquesSantos/Credit-Analysis-System

Stack: Java, Spring Boot, OAuth2, JWT, RabbitMQ, AWS S3, WebFlux, Resilience4j, Docker, Prometheus, Grafana

- Designed an architecture with 5 independent microservices and asynchronous communication via RabbitMQ
- Implemented full authentication with OAuth2 + JWT and Google social login
- Built a fully stateless system with robust business rules (user validation and rate limiting)
- Generated PDF documents stored in AWS S3 with temporary access links (1h)
- Implemented resilience using Circuit Breaker and fallback with Resilience4j
- Implemented observability using Prometheus and Grafana
- Developed 244 automated tests ensuring high system reliability

Education

Technologist Degree – Systems Analysis and Development - UNG - Feb/2024 – Dec/2025