

Murillo Marques Guandalini dos Santos

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Objective

Java Backend Developer

Relevant Personal Projects

Credit Analysis and Approval Platform (Microservices Architecture)

Technologies: Java, Spring Boot, OAuth2, OAuth2 Registered Clients, JWT, RabbitMQ, AWS S3, JavaMail, WebFlux, Resilience4j, OpenAPI, Prometheus, Grafana, Docker (deployment)

- Complete system with 5 independent microservices and a fully stateless architecture using custom OAuth2 authentication and Google social login.
- RabbitMQ orchestrates communication between user, proposal, analysis, receipt generation, and notification services.
- PDF receipts are generated, stored on AWS S3, and sent via expirable links by email using JavaMail.
- Business rules include account validation with expirable links and a limit of one proposal per 24 hours.
- Circuit Breaker and fallback implemented using Resilience4j in the main user-service.
- Observability with Prometheus + Grafana, API documentation with OpenAPI, and custom security filters.
- 244 automated tests written with JUnit, Mockito, TestContainers, WireMock, and REST Assured covering both business logic and integrations

User Registration and Email Notification (AWS SNS and SQS)

- Developed a user registration system with email confirmation using decoupled microservices with AWS SNS (publisher) and SQS (consumer).
- Asynchronous architecture improved scalability and robustness of the application.

Medical Clinic Scheduling System

- Full REST API for appointment scheduling, including user registration, login, password reset, and email confirmation.
- Implemented with Spring Security using JWT and OAuth2, with 100% test coverage using JUnit 5 and Mockito.
- API documentation with Swagger, monitoring with Prometheus and Grafana.

Education

Systems Analysis and Development – UNG

February 2024 – July 2026 (In Progress)

Technical Skills

- **Languages & Frameworks:** Java 8/11+, Spring Boot, Spring Security, Spring JPA, JWT, WebFlux Reactive, JUnit 5, Mockito
- **Architecture & Best Practices:** Microservices, REST APIs, OAuth2, TDD, SOLID, Design Patterns (Strategy, Factory), Circuit Breaker (Resilience4j), SAGA
- **Testing & Quality:** TestContainers, WireMock, REST Assured
- **Cloud & DevOps:** AWS (S3, EC2, RDS, Lambda, SNS, SQS, DLQ, API Gateway, DynamoDB, CloudWatch), Docker, DockerHub, Git, GitHub, AWS SDK for Java, SAM CLI, Kubernetes
- **Databases:** MySQL, MongoDB, PostgreSQL, SQL Server
- **Messaging:** RabbitMQ, Kafka
- **Front-end (Basic):** HTML, CSS, JavaScript
- **Monitoring & Observability:** Prometheus, Grafana, Spring Boot Actuator
- **Agile Methodologies:** Scrum

Languages

- Portuguese: Native
- English: C1 (Advanced)

Certifications

- C1 Advanced English Level – EF SET
- AWS Cloud Practitioner
- Spring Boot OAuth2 & AWS Deployment – Udemy