

DIEGO OLIVEIRA ANDRADE RAFAEL

Backend Software Engineer

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PROFESSIONAL PROFILE

Backend Developer with 3 years of experience in **mission-critical financial systems** using **Java, Spring Boot, and Node.js/NestJS**. Experienced in **microservices and event-driven architectures, messaging with RabbitMQ, Oracle, PostgreSQL, Docker, AWS**, and observability. Involved from solution design through production deployment.

PROFESSIONAL EXPERIENCE

Fullstack Developer

06/2025 – Present

Verzel Soluções em Sistemas

Development and evolution of financial platforms for a retail network of 200+ stores, involving distributed architecture, asynchronous processing, and Oracle ERP integration.

- Architected a **resilient Oracle connection management strategy** (connection pooling + circuit breaker) in a **distributed environment of 200+ stores**, eliminating recurring production crashes in financial processing (from ~3 per week to zero).
- Built the **cash reconciliation** module (**NestJS + React/TypeScript**) processing **over 1 million fiscal receipts/month** across the 200 stores, using **RabbitMQ and idempotency** to ensure reprocessing without duplicate or lost records.
- Designed an **event-driven architecture** for the **accounts submission and approval portal (Java/Spring Boot)**, using **RabbitMQ** to decouple document intake from **asynchronous processing via AWS Textract** and the integration with **Oracle ERP**.
- Developed the **transactional REST API integration with Oracle ERP**, automating batch submission of financial documents and reducing manual processing from **4+ hours to ~10 minutes per cycle**.
- Built internal tools adopted by entire departments (a team of 15+ people), automating reprocessing, operational tasks, and report generation.
- Deployed **centralized observability** with **Grafana, Loki, and Promtail** across QA and Production, reducing incident diagnosis time.
- Implemented full traceability and auditability for financial and fiscal processes, meeting compliance requirements.
- Standardized deployment with **Docker and CI/CD (Azure DevOps)**, enabling automated daily deploys that were previously manual.

Java Developer (Freelancer)

05/2023 – 06/2025

Independent Projects

Scalable backend solutions with Spring Boot, PostgreSQL, and microservices architecture.

- › **Auto Repair Shop Management** — **RESTful APIs (Spring Boot + PostgreSQL)** with **H2 → PostgreSQL** migration via **Flyway**, **Clean Architecture/SOLID**, and tests (**JUnit/Mockito**, 90% coverage) on **Docker** and **CI/CD**.
- › **Order System (Pizzeria)** — **Asynchronous integration via RabbitMQ** for real-time orders, **NoSQL (MongoDB)** persistence, and monitoring with **Grafana**.
- › **Movie Rental System** — **JWT** authentication and **Spring Security**, with **SQL** query optimization that improved response time by ~40%.

IT Technician

05/2015 – 05/2023

Omegas Comércio de Gás

- Developed an internal **inventory management system**, reducing manual errors.
- Automated sales analysis and inventory forecasting with **Python and SQL**.
- Administered **Linux** servers and corporate networks.

RELEVANT PROJECTS

Fiscal File Automation (SPED)

- Built a **SPED** file-processing tool in **Python**, responsible for **parsing, validating, rebuilding, and updating fiscal records automatically**, processing files from **200+ companies** in seconds and eliminating manual steps that previously took ~2 hours.

ParkChatBot

- Complete system with a **Java backend** and **WhatsApp integration (Twilio)** for automated management of contracts and interactions.

TECHNICAL SKILLS

Backend: Java (8/11/17/21), Spring Boot, Spring Security, Spring Data, JPA/Hibernate, Node.js, NestJS, REST APIs

Databases: Oracle, PostgreSQL, MySQL, MongoDB, Prisma

Cloud: AWS (EC2, S3, RDS, Lambda, Textract)

Messaging/Async: RabbitMQ

Observability: Grafana, Loki, Promtail

DevOps: Docker, CI/CD (GitHub Actions, Azure DevOps, Jenkins), Flyway

Architecture & Practices: Microservices, Event-Driven Architecture, Idempotency, Resilience, Circuit Breaker, Clean Architecture, SOLID, DDD, Scrum, Kanban

Additional Languages: Python, JavaScript, TypeScript, SQL, PL/SQL

Frontend: React, Redux / RTK Query

EDUCATION

Bachelor's Degree in Computer Science — Universidade Cruzeiro do Sul | 2021

Technical Degree in Information Technology — SENAI Santa Cecília | 2014

LANGUAGES

Portuguese: Native | English: Advanced