

Jefferson Valandro

Senior software engineer · applied AI, full stack and data science

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SUMMARY

Software engineer for 14 years, programming professionally since 2012, with a postgraduate degree in Data Science from PUC-Rio. My current focus is applied AI: LLM assistants inside products, conversational BI, AI tooling for software development (Claude Code, MCP, spec-driven) and MLOps pipelines. I bring a solid engineering foundation: Java and Spring Boot backends, Python, React frontends, system architecture (microservices, hexagonal, messaging) and ERP integrations, across banking payments, ERPs, logistics and education. Former Tech Lead, setting standards and architecture for the team. I also ship my own products: SaaS apps with public demos, Next.js templates, Apify scrapers and technical books.

EXPERIENCE

Software Engineer (contractor) · Self-employed 01/2026 – Present

Contract software engineer on client projects: Java and Spring Boot backends, REST APIs, React frontends and cloud infrastructure.

- Build backend services and REST APIs in Java 21 and Spring Boot.
- Deliver complete features from backend to React frontend, working with client teams.

Java 21 · Spring Boot · React · Oracle · Cloud

Senior Backend Developer · Dexian 06/2025 – 12/2025

Backend for mission-critical payment processing systems at a banking-sector client, focused on performance, security and high availability.

- Built and maintained payment-flow microservices in Java 17/21 and Spring Boot, with REST APIs and Oracle.
- Applied hexagonal architecture and asynchronous RabbitMQ messaging between services.
- Wrote unit and integration tests with JUnit and Mockito and monitored logs to find and fix production failures.
- Worked on Jenkins CI/CD pipelines in Scrum teams.

Java 21 · Spring Boot · RabbitMQ · Oracle · JUnit / Mockito · Jenkins

Tech Lead · Esig Software 11/2024 – 08/2025

Technical leadership of a multidisciplinary team on Java educational software, responsible for architecture, code quality and team standards.

- Led the multidisciplinary team technically across the educational software projects.
- Drove architecture and development of scalable Java systems, ensuring code quality and best practices.
- Defined coding standards, technical guidelines and development strategies.
- Coordinated integration with infrastructure and information security across multiple environments.

Java · Struts · Hibernate / JPA · PostgreSQL · Jenkins · iReports

Senior Software Engineer · Promob Software Solutions 10/2021 – 08/2024

Modernization of the company ERP, focused on performance, scalability and reliability, plus backend automation of business processes.

- Led ERP modernization initiatives focused on performance, scalability and reliability.
- Built backend features and automated business processes.
- Kept third-party integrations working and production environments highly available.

Java 11+ · Spring Boot · RabbitMQ · Docker · Kubernetes · PostgreSQL

Software Engineer · Transportes Bertolini 05/2021 – 10/2021

Support and evolution of a transport company's ERP.

- Diagnosed operational issues, updated the ERP and implemented process improvements for transport operations.

Java 8 · Spring · JSP · iBatis · PostgreSQL

Integrations between internal and external systems and evolution of a legacy ERP, with Java backend services for orders and automation.

- Integrated REST and SOAP APIs across internal and external systems, including payment gateways and messaging platforms.
- Maintained and evolved a legacy ERP in Visual DataFlex, adding features and improving stability.
- Contributed Java backend services for order management and business process automation.

Java 11+ · Spring Boot · REST / SOAP · RabbitMQ · Oracle · Visual DataFlex

Six years on the company ERP: order workflows, integrations with external platforms and evolution of critical features.

- Managed order workflows and built Java integrations between ERP modules and external platforms.
- Evolved critical ERP features with a focus on stability, performance and maintainability.
- Took part in REST and SOAP integration projects, improving connectivity and data consistency between systems.

Java · Spring Boot · JSF / Primefaces · PostgreSQL · JUnit · Jenkins

First role as a programmer, on the EducaWeb education system and on data integration between schools and government.

- Coordinated the data integration project between schools and government, streamlining communication between systems.
- Was a key contributor to the company’s adoption of Scrum.

Java 7 · Spring · JSP · iBatis · PostgreSQL · Scrum

SKILLS

Applied AI	LLMs in products · Claude API · Gemini · Claude Code · MCP · Spec-driven development
MLOps & data Languages	MLOps · Machine Learning · Data engineering · ETL · iReports Java · Python · JavaScript · TypeScript · SQL
Frameworks & libraries	Spring Boot · Hibernate / JPA · Struts · JSP · Flask · FastAPI · React · Next.js · Material-UI
Data & infrastructure	PostgreSQL · Oracle · IBM DB2 · Docker · RabbitMQ · Kafka · Maven · Gradle · GitLab · Jenkins · CI/CD
Architecture & integration Leadership & process	System architecture · Microservices · REST APIs · SOAP · ERP integration · Monorepo Tech Lead · Scrum / Agile · Code review · Mentoring · Best practices

OWN PROJECTS AND PRODUCTS

Lastro — Multi-tenant real estate CRM (FastAPI, Postgres RLS, React PWA) with an AI assistant.
InvestLink — Stock and REIT screener with an explainable score built on CVM filings (Flask, React, Postgres).
Vizion — AI-assisted BI: plain-language questions become charts and reports (Next.js, FastAPI, DuckDB).
Kairo templates — 9 Next.js templates for sale, including 3 complete SaaS apps with Stripe and live demos.
Apify actors — 44 public scrapers on the Apify Store (Python), billed per result.
Books — Technical books on AI and interviews on Amazon, plus free books on AI, MCP and careers.

EDUCATION

Postgraduate in Data Science & Analytics	2024 — 2025
PUC-Rio — Rio de Janeiro · Concluded	
Bachelor’s in Systems Analysis & Development	2009 — 2012
Ftec — Caxias do Sul · Academic honor — outstanding student	
IBM Data Science Professional Certificate	2023
Coursera — IBM	