

Fernando N.

Senior Software Architect/Engineering Leader

SUMMARY

- Software architect and technical leader with 26+ years of experience, focused on enterprise B2B platforms with Java, Spring, PostgreSQL, Oracle, and AWS.
- Expert in Java/Spring, PostgreSQL, REST APIs, cloud-native AWS infrastructure, and enterprise integrations including SSO with SAML/OpenID Connect.
- Optimized PostgreSQL and PL/pgSQL business logic for 10TB-scale processing; contributed to architecture and CI/CD.
- Strong background in system design, CI/CD pipelines, cloud cost optimization, and coordinating large engineering organizations.
- Mentored engineers, established coding standards and architecture reviews, and coordinated 30 engineers across 16 NeoGrid projects.

TECHNICAL SKILLS

Main Technical Skills	Java, Spring, Spring Boot
Programming Languages	Java, JavaScript
Java Libraries and Tools	Java EE, Spring Core
JavaScript Libraries and Tools	LoopBack
AI & Machine Learning	Machine Learning
JavaScript Frameworks	Node.js, React, Vue.js
Java Frameworks	Spring, Spring Boot
Security	AD Connect, AWS Security Groups, IAM
Data Analysis and Visualization Technologies	Business Intelligence (BI)
Databases & Management Systems / ORM	Microsoft SQL Server, MongoDB, MySQL, Oracle Database, pgSQL, PostgreSQL, Redis
UI Frameworks, Libraries, and Browsers	SAML
Cloud Platforms, Services & Computing	AWS
Amazon Web Services	AWS Auto Scaling, AWS EC2, AWS ECS (Amazon Elastic Container Service), AWS S3, AWS Security Groups, AWS SQS
	Agile, microservices, MVC, REST, Scrum



Methodologies, Paradigms and Patterns	
QA, Test Automation, Security	Authentication, SSO
Deployment, CI/CD & Administration	CI/CD
Virtualization, Containers and Orchestration	Docker
Platforms	ERP
Version Control	Git
Soft Skills	Mentor Aptitude
Web/App Servers, Middleware	Oracle WebLogic Application Server
SDK / API and Integrations	RESTful API
Project Management & Administration	SMART
Mail / Network Protocols / Data transfer	WebRTC
Other Technical Skills	Unreal Engine

WORK EXPERIENCE

Software Engineer, Connect Smart Data

Jan. 2015 - Present

Development and evolution of a cloud-native B2B platform integrating Java/Spring backend services with modern frontends and AWS infrastructure. The platform serves as the company's main product, supporting high transaction volumes and maintaining high availability.

- Designed and developed cloud-native backend services using Java and Spring framework.
- Built and maintained RESTful APIs consumed by internal portals and external clients.
- Integrated enterprise systems with SAP using SAML and OpenID Connect for secure SSO.
- Optimized PostgreSQL databases and PL/pgSQL business logic for large-scale data processing.
- Contributed to architecture decisions, CI/CD pipelines, and cloud cost optimization.

Java, Spring Core, Spring MVC, Spring Security, Spring Boot, REST APIs, SAML, OpenID Connect, PostgreSQL, PL/pgSQL, AWS (EC2, ECS, S3, SQS, IAM), Docker, CI/CD pipelines.

Senior Software Engineer, iProcess (Enterprise Java Systems for Dell)

Jun. 2014 - Dec. 2014



Support and enhancement of mission-critical enterprise Java applications running on WebLogic for a large corporate client, Dell, in a highly regulated environment.

- Supported system stability and defect resolution.
- Delivered new features for enterprise Java systems.
- Worked within a regulated enterprise environment ensuring compliance and reliability.

Java, WebLogic, PostgreSQL, Oracle, SQL Server, AWS, Microservices, API Development, Spring Framework.

Financial Projects Engineer, Econodata (Financial Data Processing and Integration Pipelines)

Jan. 2014 - Jun. 2014

Development and support of financial data processing and integration pipelines for analytics and reporting, handling large datasets to support business intelligence use cases.

- Developed data ingestion and transformation workflows.
- Supported business intelligence use cases for financial analysis.

PostgreSQL, Oracle, SQL Server, AWS, Microservices, API Development, Java, Spring Framework.

Software Engineer/Tech Lead/Software Development Coordinator, NeoGrid (WebEDI Platform and B2B Collaborative Portals)

Mar. 2000 - Dec. 2013

Development, scaling, and coordination of WebEDI, NeoGrid's flagship platform processing up to 200K electronic documents per day, and B2B collaborative portals for large enterprises handling millions of transactions monthly.

- Contributed to early development and scaling of WebEDI platform.
- Led technical design and delivery of B2B portals for enterprises like Whirlpool, Electrolux, and Bunge.
- Coordinated a 30-person engineering organization across 16 concurrent projects.
- Drove adoption of Agile and Scrum practices to improve delivery and system reliability.

PostgreSQL, Oracle, SQL Server, Scrum and Agile, Data Platforms, AI Systems, AWS, Microservices, API Development, Java, Spring Framework.

EDUCATION

• Postgraduate Program in Artificial Intelligence and Machine Learning

PUC Minas - Remote Learning

Mar. 2025 - Dec. 2026

• MBA in Financial Management

FGV-RS - Porto Alegre, Brazil

Mar. 2007 - Mar. 2010

• Specialization in Computer Science

UFRGS - Porto Alegre, Brazil

Mar. 2001 - Mar. 2003

• Bachelor's degree in computer science

PUCRS - Porto Alegre, Brazil

Mar. 1995 - Jul. 1999

