Juan Manuel Vélez Parra

Java Backend Engineer | Spring Boot · Microservices · REST APIs · Oracle | Financial Sector

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SUMMARY

Java backend engineer with 5+ years of experience building high-volume, critical systems for the financial sector in Colombia. I work with Java, Spring Boot, microservices, and Oracle/PL/SQL, using Hexagonal Architecture, SOLID, and tests. I work with both modern stacks (Java 21, Spring Boot 3) and stable legacy systems (Java 6) in production banking environments. I also have experience with security (OTP/2FA), Angular, and Python automation.

SKILLS

- **Languages:** Java (6, 11, 17, 21), PL/SQL, Python, JavaScript
- **Backend:** Spring Boot, Spring Framework, Spring WebFlux, Hibernate/JPA, REST APIs, SOAP, Oracle SOA, Kafka, JWT
- **Architecture and practices:** Microservices, Hexagonal Architecture, Clean Code, SOLID, TDD, DDD
- **Testing and build:** JUnit, Mockito, Testcontainers, Maven, Gradle
- **Data:** Oracle Database, PostgreSQL, PL/SQL
- **Tools and DevOps:** Docker, Git, CI/CD, WebLogic, Tomcat, JBoss, Jira
- **Frontend:** Angular
- **Method:** Spec-Driven Development (SDD) with AI assistance: Claude Code, Cursor

EXPERIENCE

Professional Software Engineer · ITC Soluciones Tecnológicas · Mar 2022 – Present

Technology partner of Colombian financial institutions. Clients: BBVA, Credicorp, Banco de Bogotá, Banco Popular

- Own the full cycle of my projects with financial clients: requirements, design, development, testing, and deployment.
- Review and fix code from junior developers.
- Built an automated system that creates encrypted PDF investment statements and emails them to clients every month to 2,000+ investment clients (Java, Spring, Oracle SOA, Jasper Reports).
- Added features and reports to three transactional web portals (Credicorp, Banco de Bogotá, Banco Popular). Added OTP and two-factor authentication to meet the annual security audits.
- Built REST services and reports for BBVA's Fiduinversión investment portal (Angular/Spring).
- Unified the electronic invoicing (DIAN) apps of three clients, with shared PL/SQL and Java logic and one XML (SOA) integration.
- Built the Budget, Invoicing, and Real Estate modules of the core platform (Oracle Forms 12c).
- Apply Hexagonal Architecture and Clean Code, and write tests with JUnit, Mockito, and Testcontainers.

Junior Software Engineer · ITC Soluciones Tecnológicas · Mar 2021 – Mar 2022

- Tuned SQL and PL/SQL queries for high-volume transactions, cutting processing time.
- Built features and reports in Oracle Forms and Oracle Reports, and PL/SQL facade procedures for new Java web apps.

PROJECTS

- **spring-web:** Spring Boot (Gradle) and Angular app with Clean Architecture, JWT security, Kafka with transactional outbox, tests with JUnit, Mockito, and Testcontainers, and monitoring with Prometheus and Grafana.
- **devsu-microservicios:** two banking microservices with REST, JPA/Hibernate, Kafka (transactional outbox), PostgreSQL, Maven, and Docker.
- **Arcade Vault:** retro arcade site built spec-first with Next.js and Supabase, live on Vercel. Code

PREVIOUS EXPERIENCE

- **Línea Directa** (2019 – 2021), Demand Planner: Python web scraping and Power BI dashboards. **Prebel** (2015 – 2019): production, inventory, and demand planning.

EDUCATION

- Bachelor's in Industrial Engineering (Productivity and Quality), Politécnico Colombiano Jaime Isaza Cadavid, 2017
- Tecnólogo Industrial, Politécnico Colombiano Jaime Isaza Cadavid, 2015

COURSES

- Full Stack Java Diploma, SENA and Fedesoft, 90 hours (2023)
- Digital Programming Skills (Python, Java, web development), MinTIC and Universidad del Norte, 600 hours (2020)
- Oracle Cloud Infrastructure 2023 Certified Foundations Associate, Oracle (2023)
- Data Science for All (DS4A), MinTIC and Correlation One, 375 hours, with honors (2021)
- PostgreSQL Databases, UNISABANETA, 120 hours (2021)
- Full Stack Java and Angular, Bmind, 80 hours (2022)
- Angular: From Zero to Expert, Udemy (2025)
- Claude Code: The Complete Guide for Software Developers, Udemy, 19 hours (2026)
- Oracle AI Vector Search Fundamentals and Deep Dive, Oracle University (2026)

LANGUAGES

Spanish (native) · English (B1)