



# Igor Pierre Miranda

## Software Engineer

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### Professional Summary

Fullstack Software Engineer with 4+ years of experience building scalable applications in fintech, telecom, and HR-tech environments. Specialized in **Java (Spring Boot)** and **Angular**, with recent **hands-on experience integrating Large Language Models (LLMs) into existing systems** using **RAG architecture** and **pgvector**. Proven track record in delivering production-ready AI prototypes, including document understanding tools. Experienced in microservices, Docker/Kubernetes, and test-driven development. Eager to bring AI-powered solutions to production in a high-impact engineering environment.

### Technical Skills

Languages: Java 8+, JavaScript, TypeScript, SQL, HTML, CSS

Frameworks: Spring Boot, Angular 12+, AngularJS

AI Tools: Python (basic), RAG, LLM integration

Testing: JUnit, Mockito, Karma, Jasmine

DevOps: Docker, Kubernetes

Databases: PostgreSQL, MongoDB

Version Control: Git, GitFlow

Other Tools: RxJS, NgRx, Bootstrap, Material UI

Methodologies: Scrum, Agile

### Work Experience

#### Software Engineer – Natixis - Groupe BPCE

Finance/ Risk Management

May 2023 – Present | Portugal

1. **Built a financial risk management platform** using **Java (Spring Boot)** and **Angular 14**, integrating complex business rules and market data to generate **Value**

**at Risk (VaR)** reports consumed by **2,000+ users monthly**.

2. **Developed an AI-powered news monitoring tool** leveraging NLP techniques to track mentions of the company across web sources. The tool achieved **~500 monthly active users** across multiple departments.
3. Designed and implemented a Retrieval-Augmented Generation (**RAG**) prototype during a company-wide hackathon, combining **LLM APIs** with a Flask backend and pgvector on PostgreSQL to index and retrieve internal documentation. The system provided contextualized answers to support queries, ranked 2nd in the competition, and is currently under evaluation for production use.
4. Currently leading the development of a tool to **monitor credit exposure breaches**, integrating automated alerts and dashboards to improve compliance and audit readiness.

### Software Engineer – Adentis

Telecom

Oct 2022 – May 2023 | Remote

1. Built a **batch service** to generate user roaming data reports within a microservices environment.
2. Implemented **REST APIs** and contributed to service orchestration using **Docker**.

### Software Engineer – Reachr

ATS - Applicant Tracking System.

Jun 2021 – May 2023 | Remote

1. Developed user-centric features for the Applicant Tracking System (ATS), directly contributing to an **80% increase** in closed deals by improving candidate experience and recruiter workflow.
2. **Automated** the creation of landing pages, **reducing** setup time from **3 days** to **under 10 minutes**, which significantly accelerated marketing campaigns.
3. Led the development of a **Chrome plugin** to scrape candidate data from LinkedIn, streamlining sourcing and saving hours of manual work per recruiter.
4. Implemented anti-bot protections like CAPTCHA and input validation, enhancing system **security** and **preventing server overload**.
5. Applied **SEO** and performance optimizations (e.g., lazy loading, meta tag tuning), increasing the main site's visibility and loading speed.
6. **Mentored a junior developer**, ensuring a smooth knowledge transfer and continuity of responsibilities.

## **Business Manager – Santander**

Retail Banking

Nov 2016 – Jan 2020 | Brasil

- Managed sales and investment portfolios for retail clients.

## **Education**

Bachelor's in Business – Universidade de Pernambuco, Brasil, 2014-2019

## **Certifications**

HackerRank Certificates in Angular and Java

Web Fullstack Developer Certificate – Let's Code (Ada), 360h, 2021–2022

RecoDev Bootcamp – Qualiti, 150h, 2021

## **Languages**

Portuguese – Native

English – Fluent

Spanish – B2 (Instituto Cervantes)

French – Beginner