

# Pedro Pereira

Full Stack Software Engineer

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## Profile

Full Stack Software Engineer with 4 years' experience, currently working at Santander Corporate Investment Banking (CIB) on backend development, automation, and cloud infrastructure. Key contributions include implementing authentication systems, automating deployments, and optimizing Kubernetes-based services in a multinational team across Poland, Spain, Brazil, and Portugal.

Expert in Java, Go, Kubernetes, Camunda and cloud platforms (AWS, Azure, OpenShift), with strong skills in DevOps, software architecture, and systems integration. Also experienced in frontend development using TypeScript, React, and TailwindCSS, having built data visualization tools and interactive dashboards in past projects.

Previously contributed to research-driven projects at IDP, specializing in data processing and cloud computing.

## Work Experience

### Backend and Automation Engineer ([NTConsult—Santander CIB](#))

Remote 08/2024 - Current

- Collaborated with a multinational team (Poland, Spain, Brazil, and Portugal) to develop a new Backoffice solution for Santander CIB using technologies like Camunda 8, Java, Go and Kubernetes.
- Implemented the internal authentication and authorization system for the new Backoffice System in Santander CIB.
- Managed the migration of breaking versions for proprietary microservices frameworks, ensuring system stability and compatibility.
- Developed automated tools for processing Kubernetes manifests, Helm charts, and proprietary configuration files, improving deployment efficiency.
- Managed deployments across different environments using GitHub Actions, UrbanCode, OpenShift (Santander Global), as well as Jenkins and CloudBees (Santander Brazil).

### Full Stack Software Engineer ([IDP](#))

Remote 03/2024 - 08/24

- Designed and developed a high-performance, scalable REST API for advanced processing and visualization of geospatial data and time series. Utilized FastAPI, Pandas, and GeoPandas to ensure robust data handling and visualization capabilities.
- Led cost estimation and management of cloud infrastructure using Vercel and Microsoft Azure. Implemented CI/CD pipelines and optimized deployment processes with Docker, significantly enhancing operational efficiency and security.
- Developed a responsive website with a content management system (CMS) built from a specific design. Leveraged technologies such as Next.js, Tailwind CSS, and Strapi to create a seamless user experience.
- Created an interactive dashboard using Chart.js to visualize data collected from a research project, providing insightful and accessible data representation for stakeholders.

### Backend Tech Lead ([IESB](#))

Brasília, DF 09/2023 - 02/2024

- Led and managed an agile team responsible for developing the backend of an electronic health records (EHR) system for the university's health courses. Focused on ensuring continuous delivery and software quality.
- Designed and implemented robust solutions using Docker for containerization, PostgreSQL as the database management system, Prisma for data access, and NestJS for backend development, with a focus on efficiency, security, and scalability.
- Oversaw the entire development cycle from conception to implementation, including continuous integration and maintenance. Utilized best development practices and agile principles to optimize team productivity and collaboration.
- Responsible for critical technical decision-making and real-time resolution of complex challenges, ensuring the system met the specific needs of the health courses and complied with relevant regulations.

### Backend Software Engineer ([NTT Data — Itaú](#))

Remote 09/2021 - 06/2022

- Implemented solutions for Itaú bank's account opening system using Java and Spring Boot, focusing on robust integration with other microservices and optimizing the account opening process.
- Leveraged Kafka for queue and message management, ensuring efficient and reliable communication between microservices. Employed Camunda for workflow orchestration, enhancing automation and operational efficiency.
- Configured and managed containers using Docker, facilitating environment replication and test integrity. Used Postman for API testing and AWS-CLI for managing resources in AWS, ensuring system scalability and availability.
- Maintained MySQL databases, implementing security practices and performance optimization to support the bank's critical operations.

## Independent Consultant *(nilptr)*

**Remote** 09/2020 - Current

- Developed tailored software solutions for a diverse range of clients, including individuals and businesses, addressing their specific needs and significantly enhancing their operational processes.
- Designed and implemented an inventory management system using Qt, featuring a rich and responsive interface that facilitates efficient inventory control with advanced search and reporting capabilities.

## Academic Background

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### Software Engineering Specialization *PUC-RJ*

**Remote** 2023-2024

Relevant Courses: Microservices Architecture, Cloud Architecture and DevOps, Requirements Engineering and Agile Product Management, Intelligent Software Systems Engineering.

### Btech in Systems Analysis and Development *IESB*

**Brasília, DF** 2021-2023

Relevant Courses: SQL and No SQL Databases, Computer Networking and Distributed Systems, Software Engineering and Agile Methods, Operating Systems, Data Structure and Algorithms.

### Bachelor of Philosophy *UnB*

**Brasília, DF** 2016-2019

Relevant Courses: First Order Logic, Set Theory, Modal Logic, Non-Classical Logic, Philosophy of Science, Epistemology.

## Courses & Certifications

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- IBM Security Analyst Fundamentals Specialization (2022) - [IBM](#)
- Scrum Foundation Professional Certificate (2022) - [Certiprof](#)
- AWS Partner: Accreditation (2022) - [AWS](#)
- Test of English as a Foreign Language (2019) - [ETS](#)
- Certificate of Advanced English (C1) (2016) - [Cambridge](#)

## Skills

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- **Full Stack Development:** React, NextJS, Svelte, React Native, Flutter, Node.js, Express, NestJS, Django, HUGO
- **Database Management:** PostgreSQL, MySQL, MongoDB
- **Service Integration and Orchestration:** Kafka, Camunda
- **DevOps and Cloud Tools:** Kubernetes, Docker, AWS, Vercel, OpenShift, Jenkins, UrbanCode
- **Project Management and Technical Leadership:** Agile team management, technical project leadership, CI/CD, development pipelines
- **API Development:** FastAPI, Flask, NodeJS, NestJS, Spring Boot, Go net/http, Gin, Swagger
- **Soft Skills:** Analytical capability, logical reasoning, efficient problem-solving, teamwork, leadership, adaptability to new technologies

## Languages

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- **English** [Advanced] - C1
- **Spanish** [Basic Intermediate] - A2
- **Portuguese** [Native] - C2