Pedro Pereira

Full Stack Software Engineer

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Profile

Full Stack Software Engineer with 4 years' experience in building and maintaining web and mobile applications. Expertise in collaborating with diverse teams, ranging from multinational corporations such as NTT Data to innovative, agile business like Toguishi Japan. I have held leadership roles such as Backend Tech Lead, where I spearheaded the development of a medical records system for the health courses at the Brazilian Institute of Superior Education. Currently I'm employed by the Brazilian Institute of Education, Development and Research as an independent researcher, tasked with delivering cutting-edge solutions for various research initiatives. I'm proficient in modern technologies like React, NextJS, React Native, and Flutter. Skilled in applying industry-leading software engineering methodologies to plan, develop, and deliver robust solutions, as well as in overseeing projects and guiding teams.

Expertise

Full Stack Development - React - NextJS - React Native - Flutter - TailwindCSS - Cloud Services - AWS - Azure - Vercel - Technical Leadership - Software Architecture - Requirements Engineering - Systems Integration - Data Analysis and Visualization - Performance Optimization - API Development - User Experience

Work Experience

Full Stack Software Engineer *(IDP)*   **Remote** *03/2024 - Current*

- 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)*   **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 - Atual*
- 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

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

- 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

- **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:** Docker, AWS, Vercel, Digital Ocean, Edge Computing, Cloud Computing

- **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

- **English** [Advanced] - C1
- **Portuguese** [Native] - C2

- **Spanish** [Basic Intermediate] - A2