

RAFAEL RIBEIRO

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EDUCATION

Federal University of Alagoas

Bachelor's Computer Science

Oct 2021 - Dec 2025

EXPERIENCE

Visagio

Software Developer Intern

Remote

June 2024 - Present

- Developed and maintained backend services within a modular architecture using FastAPI, Python, and MySQL, ensuring scalability and flexibility in queries.
- Structured communication between the main backend and multiple modules through RESTful APIs, promoting clear separation of responsibilities, better code organization, and easier system maintenance and evolution.
- Created agents and tools for data generation, analysis, and visualization, including interactive charts and complex calculations.
- Designed and implemented Text-to-SQL models using LLMs, LookML (Looker), Prompt Engineering, and LangChain, enabling natural language queries over structured data.
- Designed and developed dynamic and responsive interfaces using React.JS, Tailwind.CSS, and Context API, adopting a component-based approach to build reusable and scalable components, ensuring a smooth and easily maintainable user experience.

EDGE Inovation Center

Software Developer Intern

Feb 2024 - June 2024

- Developed an ETL tool based on microservices for extracting, transforming, and transmitting millions of records daily, leveraging Java, Spring Boot, JPA, Kafka, and OracleDB to ensure performance and scalability in data processing.
- Designed the architecture and structure of the tool, contributing to strategy definition for microservices integration to ensure service independence and scalability.
- Applied design patterns to the tool's architecture, enhancing modularity, reusability, and maintainability, resulting in a more flexible and efficient system.
- Implemented unit tests using JUnit, covering system components and ensuring code quality.

SKILLS

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|------------------------|---|
| Programming Languages: | Python, Java, JavaScript/TypeScript, HTML/CSS, SQL |
| Tools: | Spring Boot, FastAPI, React.JS, Next.JS, MySQL, Docker, Git, LLMs |
| Languages: | English, Portuguese |

PROJECTS

Student Manager *Java, Spring Boot, NextJS, Tailwind, PostgreSQL*

System for managing students at Edge Academy, using Next.js and Tailwind.CSS for the frontend, and Spring Boot, JPA, Docker, and PostgreSQL for the backend. The application includes features such as student registration, performance tracking, and information management, aiming to optimize academic administration.

SafeElder *Python, FastAPI, PostgreSQL, ReactJS*

An elderly monitoring application using computer vision to detect falls and automatically send alerts to registered caregivers.

PsicoDaily *JavaScript, NodeJS, MongoDB, ReactJS, Tailwind*

A website designed to facilitate communication between patients and psychologists. In this project, the frontend was developed with Next.js and Tailwind, while the backend was built using Express and MongoDB, with deployment on Railway.