

Pedro Henrique de Sousa Matumoto

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São Paulo - SP - Brasil



SOFTWARE ENGINEER

Software Engineer and Solution Architect dedicated and results-oriented, seeking opportunities to contribute to innovative solutions in technology-driven organizations. Experienced in system development, large-scale data analysis, and collaborating with cross-functional teams to deliver impactful projects.

KEY COMPETENCIES

- Proficient: Excel, Python, Microsoft SQL Server
 - Intermediate: Java, C, Dashboards, VBA, MongoDB (NoSQL), TypeScript/JavaScript, CI/CD, Docker, AWS, Linux, PostgreSQL, Google Cloud, ReactJS, HTML/CSS, DuckDB, Terraform
 - Basic: R, WordPress, Figma, Django
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PROFESSIONAL EXPERIENCE

Alvarez And Marsal | 11.2023 - Current

Tax Tech Intern

I developed automation solutions using web scraping in Python (RPA), reducing the execution time of repetitive processes by 30%. I implemented distributed cloud computing systems, enhancing the performance of large-scale data processing by 40%. I created complex dashboards with detailed tax analysis, providing in-depth insights and facilitating strategic decision-making. Additionally, I developed APIs with the FastAPI framework for querying large databases, integrating deployment pipelines with Azure DevOps in Azure WebApp.

Instituto Mauá de Tecnologia | 08.2022 - 11.2023

Project Monitor

I standardized scattered data using Python (pandas/numpy) to ensure consistency, created presentations for international conferences, and contributed to writing a scientific paper. I redesigned the attendance system for events and automated the generation of reports and certificates using Python, reducing processing time from 4 hours to 30 seconds. Additionally, I standardized registration forms and participated in the development of the system architecture, always focusing on optimization and quality.

Maua Jr. | 03.2021 - 11.2021

Website Consultant

I developed websites using WordPress and created layouts for commercial sites, focusing on visually appealing and functional solutions. I reviewed technology service contracts to ensure greater clarity and compliance. Additionally, I maintained direct communication with clients to understand their needs and provide customized solutions.

EDUCATION

INSTITUTO MAUÁ DE TECNOLOGIA | 2021 - 2025

Computer Engineering - Minor in Bioengineering

CERTIFICATIONS

Associate Cloud Engineer - Google Cloud

TOEFL ITP - 597 (B2)

AWS Certified Cloud Practitioner - AWS

Linux Essentials - Cisco

AZ-900 Azure Fundamentals

PROJECTS

International Project on Timetable System | Fontys University of Applied Sciences

Front-end Developer and International Communication Facilitator

I participated in the development of a web system for creating and managing academic timetables, in partnership with a university in the Netherlands. I worked as a front-end developer, using Vite and applying the Bulletproof React architecture with Tailwind CSS to ensure a scalable, organized, and maintainable code structure. The interface was integrated with the backend through REST APIs, enabling efficient communication between the application's layers. In addition to the technical aspects, I was also responsible for facilitating communication between the teams in Brazil and the Netherlands, promoting alignment of requirements, cultural understanding, and ensuring the smooth progress of the project in an international and collaborative environment.

BoraMarcar – Intelligent Scheduling System | Instituto Mauá de Tecnologia

Back-end Developer

I worked on the development of BoraMarcar, a web application inspired by When2meet, with significant improvements such as a more intuitive interface and automatic suggestions for the best possible time based on participants' availabilities. On the back-end, I used Clean Architecture to ensure decoupled, testable, and scalable code. I implemented dependency injection to facilitate maintenance and the swapping of application components. The system's structure was designed with repository abstraction, allowing flexibility in choosing between relational and non-relational databases. I also developed and documented REST APIs for efficient integration with the front-end.

Mirai – Autonomous Service Robot | Instituto Mauá de Tecnologia

Software Developer & Software Engineer

Responsible for the development of the software system for an autonomous service robot, focused on human-robot interaction and navigation in indoor environments. Utilized ROS2 for orchestrating modules and communication between sensors and actuators. I implemented speech recognition features using Whisper (OpenAI), as well as computer vision and artificial intelligence for environment and people recognition, and autonomous decision-making. The system is modular, flexible, and designed for real-world applications.
