

Pedro Consales Margaronis

Software Engineer

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Languages

Portuguese Native | ENEM Essay 920
Advanced English

Hard Skills

Full Stack Development
Systems Architecture

Python
Django/DRF
React
REST APIs
Tailwind CSS
HTML
Next.js

C
Java
C#

Google Cloud
Vercel

Supabase
PostgreSQL
SQLite

Redis

Git & GitHub

Education

B.Sc. Computer Science
PUC-Rio | 2024.1 – present
(expected graduation: Jul/2027)

High School
Pensi | 2020–2023

Middle School
Boca Raton Middle School, USA |
2018–2019

Full Stack Software Engineer with multicultural and international experience. Hands-on profile oriented toward planning and execution, with a focus on organization and maintainability. Continuous learner, with expertise in building systems with modern stacks and practical use of AI in solutions.

Professional Experience

Software Engineer — Instituto ECOA PUC-Rio (Internship)

Rio de Janeiro | February 2026 – Present

- Developed complete applications, from data modeling and architecture to final delivery, in a corporate environment, in partnership with **Petrobras**.
- Used the **Django** and **Django REST Framework**, **React**, **Tailwind CSS**, **PostgreSQL** and **SQLite** stacks to develop the solutions.
- Deepened my knowledge of **Semantic AI Models**, **Semantic Search**, **Vector Databases**, **Embeddings** and **FAISS**.
- Worked with **VPNs** and remote connection via **SSH** to access corporate environments.

Software Developer & Researcher — Ignição Program at Instituto ECOA PUC-Rio (Internship)

Rio de Janeiro | April 2025 – February 2026

- Conceived and developed solutions to real problems proposed by **Petrobras**, building MVPs presented as a Pitch and Demo to an evaluation panel.
- Used the **Django** and **Django REST Framework**, **React**, **Tailwind CSS**, **Supabase (PostgreSQL)** stacks to develop the applications.
- Developed **generative AI** applications with **RAG** and **LLM** via API.
- Deepened concepts of **Server-Side** vs **Client-Side rendering**, **API** integration and **KPI** analysis.

Volunteer English Teaching Assistant — Pensi Colégio e Curso

Rio de Janeiro | 2022 – 2023

- Assisted high school students in the English course.

Projects

dropaí — Surf Championship Management System

Developer & Founder | Present

- Developed, together with a team, a championship management platform for surf organizations.
- Used **Django** for the main app and **React** for the system's portfolio, with a **PostgreSQL** relational database.
- Upgraded the stack to **Next.js** using **Supabase** for the database.
- Configured **hosting** and **authentication** logic via **Google Cloud** and **Supabase Auth**.
- Modeled complex rules such as **heats running asynchronously** and **brackets** with formats predefined by **FESERJ** (Rio de Janeiro State Surf Federation).
- Implemented a **scoring** system and **athlete progression** through the brackets.

CNPq Researcher — PUC-Rio (Undergraduate Research)

Rio de Janeiro | September 2026 – Present

- Conduct **research and development** at PUC-Rio in the GIST lab (Great Ideas for Small Things), focused on building **embedded systems** and **reactive programming**.
- Research **safety** solutions for **water sports**, proposing a wearable device capable of **identifying risk situations** for an athlete.
- Designed an alarm-based **signaling** system to alert safety forces, enabling rescue and **reducing** the chances of fatality.

Compiler — LBS Language

Study project

- Developed a compiler in **C** that reads, interprets and translates **LBS** code (a general-purpose programming language) into machine code (**assembly**).
- Applied concepts of **memory**, **parsing** and **data structures** in the implementation.