

GUILHERME LEÃO

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EDUCATION

Technological Institute of Aeronautics (ITA) — SP, Brazil
B.Sc. in Electronics Engineering (Summa Cum Laude)

Feb. 2016 - Dec. 2021
Overall Grade: 9.53/10

WORK EXPERIENCE

Casa dos Ventos
Full Stack Developer

São Paulo, Brazil
Jul. 2023 - Present

- Developed the company's proprietary Energy Trading and Risk Management (ETRM) platform, which is responsible for managing thousands of energy contracts and financial invoices monthly.
- Contributed to the software modeling by defining the UML diagram with a domain-driven design approach, prototyped several of the software's modules (e.g. Financial, Business and Legal) using Figma, and developed the backend API in Node.js and the frontend in React - both hosted in Google Cloud Platform (GCP).

FieldPRO
Data Engineer

São Paulo, Brazil
Apr. 2022 - Jun. 2023

- Managed and maintained ETL processes to ensure automated and seamless data pipeline operations, utilizing Celery for scheduling ETL jobs to extract data from various APIs and databases.
- Enhanced rainfall analysis on farms by merging observational measurements with satellite rainfall estimates.

Hardware Developer

Sep. 2021 - Apr. 2022

- Designed the schematic, defined the Bill of Materials (BOM) and designed the Printed Circuit Board (PCB) of the product expanding its capabilities to support several communication technologies (GSM, UMTS, LTE and Wi-Fi), enabling installation in more challenging environments in Brazil.

GreenLab Solutions
IoT Developer Intern

São Paulo, Brazil
Dec. 2020 - Aug. 2021

- Designed and deployed electronics for an automated hydroponic growing chamber, where environmental conditions such as humidity, temperature and CO_2 concentration were monitored and remotely controlled.
- Designed and programmed firmware for circuits using ESP8266 and ESP32 development boards, connected to various sensors, to monitor and control the internal microclimate of the growing chamber.

TUHH - Institut für Flugzeug-Systemtechnik
Software Developer Intern

Hamburg, Germany
Oct. 2019 - Sept. 2020

- Enhanced C# software tools used for cross-validation of aircraft systems, enabling engineers to identify problems and perform trade-offs during early design phases, reducing redesign efforts and costs in latter development stages.

EXTRACURRICULAR ACTIVITIES

RedeCASD
Computer Network Administrator

Mar. 2016 - Oct. 2017

- Managed and maintained the computer network of all students living in the university dormitory.
- Built the *InstaRancho* Android app using the Ionic framework used by students attending the campus canteen.

SKILLS

Computer Languages Typescript, SQL, Python, C, C++, C#, MATLAB, R

Frameworks & Tools Node.js, React, Next.js, PostgreSQL, Figma, Git, Docker, Google Cloud Platform, Pandas, Flask, NumPy, Keras, Scikit-Learn, ESP32, FreeRTOS, GNU Linux, KiCad, Unity

Languages Portuguese (native), English (full professional proficiency), German (beginner)

HONORS & AWARDS

2nd Selected Best Paper, 19th IEEE Latin American Robotics Symposium 🏆 2022

Summa Cum Laude, B.Sc. in Electronics Engineering at ITA 🏆 2021

7th place, International Young Physicists' Tournament Brazil 2014

Silver Medal, Brazilian Physics Olympiad (OBF) 2013, 2011

Silver Medal, Brazilian Olympiad in Informatics (OBI) 2012

CERTIFICATIONS

Associate Cloud Engineer Certification, Google 🏆

Dec. 2024