JACQUES BEN BILOMBE

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EDUCATION

Pontifícia Universidade Católica   Rio de Janeiro, Brazil

Postgraduate degree in Data Science and Analytics   Feb 2024 - Jun 2025

Centro Federal de Educacação Tecnológica Celso Suckow da Fonseca   Rio de Janeiro, Brazil

Bachelor's degree in Electronics engineering   Feb 2018 - Mar 2024

- Study Abroad – Brazil Government Scholarship (PEC-G)

EXPERIENCE

Upwork   Remote

Freelance Python Developer   Oct 2022 -

- Designed and implemented automation systems, reducing manual workflows for clients in e-commerce, analytics, and trading.
- Built algorithmic trading bots integrating broker APIs with real-time data pipelines, backtesting strategies, and performance monitoring.
- Developed OCR and computer vision pipelines to extract structured information from complex images.
- Created predictive models to analyze customer behavior, increasing conversion rates and optimizing sales processes.

Cadastra Marketing Digital LTDA   Porto Alegre, Brazil

Data Science Analyst   Aug 2021 - Dec 2022

- Developed software to detect potentially improper source assignments or purchases on wholesalers' websites, which led the company to recover 5% of its annual revenue.
- Implemented a customer behavior recommendation system where our clients could suggest products to their customers based on their historical purchase behavior.
- Co-developed a multilayer client classification algorithm for Samsung Brazil to determine the customer profiles that typically purchase when a new line of smartphones is introduced to the market.
- Modeled a new software to extract large volumes of data from Google Analytics 4.0 and Adobe.

Mud Runner Baja   Rio de Janeiro, Brazil

Electronic sector's Scrum Master   Jun 2020 - May 2022

- Implemented daily small meetings for the six team members to discuss the ongoing projects, as a result, communication improved and productivity increased.
- Monitored and organized the team's daily and weekly task flow during the car manufacturing process.
- Led the development of the Mud Runner team's happiness panels, which guided our work efficiency strategy. As a result, Mud Runner won the Rio de Janeiro state Off-Road competitions twice.

Junior Electrical Engineer   Jan 2019 - May 2020

- Redesigned the speed collection system by implementing a new sensor with magnetic field detection to increase precision and system efficiency.

- Spearheaded the development of a new data collection and transmission via radio frequency (RF) for garage tests, which enabled the team to reduce maintenance and structure validation time from 2,5 hours to 1 hour.
- Co-projected the off-road Baja car electronic system for live monitoring of its speed, fuel level, and rotation per minute (RPM) for enhanced performance during the race.

Centro Federal de Educacação Tecnológica Celso Suckow da Fonseca   Rio de Janeiro, Brazil
Teaching Assistant of Partial Differential Equations and Series   Mar 2020 - Dec 2020
- Assisted other students in solving exercises and explained course content.

RESEARCH
Federal University of Pelotas   Pelotas, Brazil
Research Assistant   Aug 2022 - Dec 2022
Project: **ReVarcine: an integrated platform for Reverse Vaccinology with Deep Learning**
- Implemented a new approach to execute the entire software using parameters in the computer terminal, resulting in a reduction of processing time by 5%.
- Developed an algorithm to read the data warehouse for analysis and to link the results of each step to the next.

Centro Federal de Educacação Tecnológica Celso Suckow da Fonseca   Rio de Janeiro, Brazil
Research Assistant   Nov 2021 - Dec 2022
Project: **Extraction of Templates in Image**
- Headed the development of image processing software that extracts multiple oriented texts using Optical Character Recognition (OCR) and separates complex shapes on a geographic map after identification.

LANGUAGES/SKILLS/INTERESTS
Languages: French (Native), Swahili (Native), Portuguese (Fluent), English (Intermediate), Spanish (Basic);
Computer skills: programming in C++, Python, SQL, and MATLAB (My Github), Eagle AUTO-DESK