

GABRIEL CAMPELO FORMIGA

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[LinkedIn](#) | [GitHub](#)

EXPERIENCE

Internship - B3 [São Paulo, BR - Remote]

08/2025 - Present

Automated the monthly commodity allocation workflow for institutional clients, replacing a manual and time-consuming process with a data-driven pipeline. Conducted extensive Exploratory Data Analysis (EDA) on historical purchasing datasets (2017–Present) to uncover allocation patterns. Developed and deployed a Random Forest classifier using Python, Pandas, and Scikit-learn, improving process efficiency and predictive accuracy.

Member - TAIL (Technology and Artificial Intelligence League) [João Pessoa, PB - On-site]

07/2025 - Present

Developing a Machine Learning solution for Medway Group, the largest educational consultancy in Paraíba. Building predictive models to assess learning progression and estimate approval likelihood for over 1,000 students. Implemented and benchmarked classification algorithms using Python and Scikit-learn to identify performance patterns and at-risk students

Associate Researcher - Huawei [Fortaleza, BR - Remote]

05/2025 - Present

Selected for Huawei & Dataprev Centro de Inteligência Artificial do Nordeste (CIAN). Architected and implemented two MVPs for Smart City Governance: (1) **QualificAI**, a career guidance platform that matches user profiles to 18k+ courses and 1M+ job vacancies using CBO-based matching, built with FastAPI, React, and ChromaDB, featuring an AI-powered RAG chatbot (LangChain) for personalized career recommendations; and (2) **Carteira de Saúde**, a Personal Health Record (PHR) system that allows patients to securely manage medical records and share them via time-limited QR codes, developed with FastAPI, Next.js, and SQLite, including JWT authentication with RBAC, audit logging, and an AI RAG chatbot (LangChain + ChromaDB) for natural language queries on medical documents.

Research Initiation Fellow – Universidade Federal da Paraíba [João Pessoa, BR – On-site]

09/2024 – 09/2025

Implemented alignment-free sequence analysis methods, including CGR and FCGR, to transform DNA sequences into numerical matrices using Python, C++, and MATLAB. Applied Agglomerative Hierarchical Clustering with Ward's linkage to assess genetic similarity, generating coherent phylogenetic trees with clear separation between vertebrate and invertebrate organisms.

Co-Lead – IEEEExtreme 19.0, IEEE Region 9 [Northeast Brazil Section]

03/2025 – 11/2025

Leading the organization of IEEEExtreme 19.0 in the Northeast Brazil Section. Coordinating with Student Branches, promoting the competition, and engaging the regional IEEE community to increase participation.

EDUCATION

Universidade Federal da Paraíba – UFPB

Bachelor of Computer Engineering

Ranked 1st in the Computer Engineering entrance exam.

João Pessoa, Brazil

02/2023 – 08/2027 [Expected]

HONORS & AWARDS

Outstanding Student José Lins do Rêgo

Oct 2019

Awarded by the City Council of João Pessoa for exceptional performance in academic olympiads.

Brazilian Scientific Olympiads

2019

- Gold Medal – Brazilian Astronomy and Astronautics Olympiad (OBA)
- Silver Medal – National Science Olympiad (ONC)
- Bronze Medal – Brazilian Kangaroo Mathematics Olympiad (Canguru)
- Nominated – Brazilian Mathematics Olympiad (OBM)

Competitive Programming Competitions

- Silver Medal – Paraíba Informatics Olympiad (OPI) 2025
- Silver Medal – Paraíba Informatics Olympiad (OPI) 2023
- Top 8 nationally – IEEEExtreme 24-Hour Global Programming Contest 2025
- Top 8 nationally – IEEEExtreme 24-Hour Global Programming Contest 2024
- Honorable Mention – Paraíba Informatics Olympiad (OPI) 2024

SKILLS

Languages:

Portuguese, English, Spanish

Programming Languages:

C++, Python, C, MATLAB, Assembly

Data Science & AI:

Pandas, NumPy, Scikit-learn, OpenCV, PyTorch

Tools/Platforms:

Git, GitHub, Linux, LaTeX, Docker

Databases/Cloud:

PostgreSQL, MySQL, Supabase, Huawei Cloud