

# Igor Pereira Gouveia

Computer Engineering

## CONTACT

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[Portfolio](#)

[Linkedin](#)

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## COMPETENCES & SKILLS

- Programming languages & Tools:** C/C++, Python, TypeScript, Verilog, Git, Linux, Docker.
- Data Science & ML:** Pandas, TensorFlow, PyTorch, Scikit-learn, OpenCV, CrewAI.
- Software & Database:** React, Node.js, Express.js, MongoDB, PostgreSQL, Prisma ORM, Spring Boot, AWS Services.
- Hardware:** ESP32, STM32, Firmware development, FPGA-based System Design.

## LANGUAGES

- [Inglês \(B2\)](#)
- [Francês \(A1\)](#)

## CERTIFICATIONS & COURSES

[Fundamentals of Deep Learning](#) 11/2024

Nvidia DL Institute (Workshop presencial) 11/2023

[Introduction to Data Science](#) 11/2023

Instituto Atlântico (Avanti Bootcamp)

## EDUCATION

**Colégio da Polícia Militar do Ceará General Edgard Facó**

High School Diploma 2018 - 2020

- Participation in the 3rd phase of the Brazilian Physics Olympiad (OBF) 2018
- Bronze Medal ([National and State Level](#)) in the Brazilian Public School Physics Olympiad (OBFEP) 2018
- Gold Medal ([State Level](#)) and Silver Medal ([National Level](#)) in the Brazilian Public School Physics Olympiad (OBFEP) 2017

## SUMMARY

Computer Engineering student at UFC, focused on Software Engineering and applied Machine Learning. With 2 years of experience in both frontend and backend development, I am currently working on building a health monitoring platform with Java and React. Furthermore, recently, I have been learning and practicing about cloud principles, computer vision, and AI agents. Therefore, I am seeking opportunities as a Software and/or a ML/AI Engineer to develop scalable systems and learn to maintain real products.

## EXPERIENCE

**Bachelor in Computer Engineering**

03/2022 - 12/2026

**Federal University of Ceará (UFC)**

**Undergraduate Research Fellow (CNPq) | Backend Developer**

GREat Lab | UFC

09/2025 - Present

- I work on developing **Java** services and the **React** web interface for a **quality of life monitoring platform** that integrates biometric data from wearables and clinical assessments, generating insights for doctors and patients.
- I also research and evaluate **machine learning algorithms** applicable to the data used by the platform, assessing performance and robustness to improve the reliability of **health monitoring inferences**.

**Undergraduate Research Fellow (Funcap) | IoT Engineer**

NuTec (Núcleo de Tecnologia e Qualidade Industrial do Ceará)

04/2025 - 08/2025

- I developed an IoT prototype for automated irrigation with ESP32, reusing condensed water from air conditioning.
- I implemented the control logic in C/C++ using sensors and telemetry flow and cloud persistence with MQTT and Supabase. In addition, I configured dashboards in Grafana for real-time and historical monitoring.

**Embedded Systems Developer**

LESC (Laboratório de Engenharia de Sistemas de Computação)

12/2024 - Present

- I work at Clube do Hardware, an extension project at UFC, developing educational prototypes in **C/C++** with **ESP32** or **STM32** and integrating sensors and modules into **IoT projects**.
- For example, I participated in the development of a 3D-printed robotic hand with servomotors controlled by gestures via **computer vision** in **Python**.

**Web Developer | Marketing Manager**

GTI Engenharia Jr.

12/2023 - 02/2025

- I worked as a web developer on the delivery of institutional websites and on-demand systems (e.g., blogs), using the MERN stack with MongoDB, Express, React, and Node.js to implement features and maintain a scalable base.
- As Marketing Manager, I led the team in prospecting and lead qualification. In addition, I structured briefings and commercial proposals, conducted negotiations, and monitored the alignment between the agreed scope and the technical team's execution.

## COMPLEMENTARY ACTIVITIES

**Tutor for the course “Applied Computational Intelligence”** 09/2025 - 01/2026

- I supported classes and practical activities for the course, assisting around 20 students and reviewing assignments to suggest technical and scientific writing improvements. The course activities ranged from exploratory data analysis to supervised and unsupervised learning methods.

**Vice-President of the IEEE CASS student chapter (UFC)** 09/2025 - Present

- I coordinate a study and research initiation group in FPGA, investigating AI acceleration under hardware constraints and practicing in Verilog.