Tiago Marques

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Barcelos

Software Engineer Student

Resume

Experience

Summer internship in 2BWebconnect — July 2024 - Sep 2024
I worked on a key project at a **web development** company, developing the frontend of an internal application and optimized the backend of the main application, made in PHP.

Member of the Project Department in Pollux — Oct 2024 - Present
Assumed **leadership** of the **software sub-team** following the successful migration of the codebase from Python to C++ (PlatformIO) and hardware from Raspberry Pi to ESP32. Currently focused on documenting, refactoring, and optimizing existing code to enhance system robustness and maintainability for stratospheric flights.

Summer internship in Critical Software — Jul 2025 - Aug 2025
Working on the 3 main areas of the company:
- **Space** - Developed an **embedded system** in C for temperature regulation of a satellite.
- **Automotive and Railway** - Built a driver fatigue detection system using **Python**, leveraging OpenCV and Dlib.
- **Industrie** - Contributed to the development of a **Spring Boot** application with Elasticsearch, implementing new features in an existing enterprise management system

Education

BSc in Informatics Engineer, University of Coimbra — Sep 2022 - Jul 2025

MSc in Informatics Engineer, University of Coimbra — Sep 2025 - Present
Specializing in Software Engineering

Skill Technical

Programming Language: C/C++, Java, Python
Web: HTML, CSS, React.js
Backend & APIs: Spring Boot, Flask, REST API, Postman
Database: SQL, Postgres
Tools: Git, Github, Gitlab, Linux, LaTex

Language

Portuguese (native)
English

Hobbies

Music
Photography