



DIOGO BRAZ

SOFTWARE DEVELOPER

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Lisbon, Portugal

Skills

Programming Languages:

- JavaScript;
- Java;
- Python;
- C/C++;
- C#;
- PHP.

Technologies:

- Front-End:**
 - React;
 - CSS;
 - HTML5;
 - TailwindCSS;
- Version Control:**
 - Git;
 - GitHub;
- Back-End:**
 - Node.js;
 - Express;
 - Databases(MySQL,Postgre SQL,MongoDB);
 - Microservices;
 - Containerization(Kubernetes & Docker);
- Full Stack:**
 - MERN Stack;
- Deployment:**
 - AWS(Amazon Web Services);
 - Google Cloud Platform;
- Machine & Deep Learning Frameworks:**
 - PyTorch;
- Computer Vision:**
 - OpenCV;
 - YOLO;
- Data Science:**
 - Pandas;**
 - NumPy;**
 - Jupyter Notebooks;**
 - Matplotlib.**

Soft Skills:

- Problem-solving;
- Collaboration in Cross-Functional Teams ;
- Adaptability;
- Learning Agility.

Professional Interests

- Web Development;
- Artificial Intelligence;
- Robotics.

Personal Interests

- Design;
- Motorsports;
- Home Development Projects.

Education

• NOVA-School of Science and Technology

Electrical and Computer Engineering (2019 -2024)

Pandas

YOLO

OpenCV

Java

C/C++

Python

C#

• CS50 Harvard Online

Web Programming with Python and JavaScript (2021 -2021)

HTML5

Python

CSS

Git

JavaScript

• CS50 Harvard Online

Introduction to Artificial Intelligence with Python (2022 -2022)

Python

Pandas

Machine Learning

• Code Academy

Full-Stack Career Path (2023 -2023)

JavaScript

Node.js

Express.js

MongoDB

JavaScript

• Udemy - Stephen Grider

Microservices with NodeJS and React (2024-2024)

Docker

Microservices

Kubernetes

Professional Experience

• Summer Internship - Electric Vehicle Chargers

Siemens SA - Factory of Corroios (2022-2022)

During my summer internship at Siemens, I was part of a team focused on quality control for electric vehicle chargers. I was specifically responsible for drafting and ensuring the implementation of security protocols during the electrical testing phase of the chargers. This role required close collaboration with engineers to establish comprehensive safety procedures, ensuring compliance with industry standards. My work contributed to maintaining the reliability and safety of the products, and I developed strong skills in technical writing, attention to detail, and process management.

• Research Intern – Autonomous Sailboat Project

NOVA - School of Science and Technology (2023-2023)

As part of a three-person team at FCT-NOVA University, I contributed to a research project focused on developing a fully autonomous sailboat. Over the course of one month, we worked on integrating fuzzy control algorithms, the ESP32 microcontroller, and various sensors to enable autonomous navigation. My role involved collaborating on the design and implementation of control systems, troubleshooting sensor integration, and fine-tuning the boat's responsiveness. This experience enhanced my skills in systems engineering, embedded programming, and sensor data analysis.

Projects

• FCTMOTO

Team Leader & CO-Founder (2021-2024)

As the founder and team leader of FCTMOTO, I led a multidisciplinary team in the development of a fully electric motorcycle prototype designed to compete in the international MotoStudent competition. I was responsible for managing and coordinating all sub-teams, ensuring effective communication and collaboration across the project. Additionally, I served as the primary point of contact with partners and sponsors, driving the project's external relations. In parallel, I was actively involved in the propulsion team, where I focused on motor control and battery management, contributing to the optimization of the motorcycle's performance and efficiency.