

## Experience

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### ▶ Continental Engineering Services, Ltd.

Porto, Portugal

*Software Engineer*

*Mar. 2022 – Jul. 2022*

- › Curricular internship focusing on evaluating the performance of a Reinforcement Learning model, specifically applied to HVAC systems using Python.
- › Developed performance metrics and visualisation tools to track model efficiency and effectiveness.

*Embedded Software Engineer*

*Aug. 2021 – Sept. 2021*

- › Summer internship in the cybersecurity team, designed and implemented a dynamic interface using C++ for sending and receiving CAN messages.
- › Worked on secure communication protocols to enhance the safety of vehicle data exchanges.

### ▶ Formula Student FEUP

Porto, Portugal

*Driverless Team Member*

*Oct. 2022 – Sept. 2023*

- › Researched and implemented autonomous vehicle control algorithms, namely PID and MPC controllers.
- › Developed custom communication protocols using ROS nodes.
- › Competed in the FS-AI class in the Formula Student UK competition.

### ▶ Faculty of Engineering, University of Porto

Porto, Portugal

*Invited Assistant*

*Feb. 2023 – Jun. 2023*

- › Supported the professor during lectures by answering students' questions and providing additional clarification on the course (SCCOM) material.

*Teaching Assistant*

*Oct. 2022 – Sept. 2023*

- › Improved the automated exam and quiz correction process for the Functional and Logic Programming course unit.

### ▶ JUNIFEUP

Porto, Portugal

*Senior Developer*

*Sept. 2021 – Jul. 2022*

- › Junior Enterprise member, where I developed web and mobile applications using React and React Native, while leading and providing technical support to a team of developers.
- › Coordinated with cross-functional teams to deliver projects on time and within budget.

## Education

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### ▶ Faculty of Engineering, University of Porto

Porto, Portugal

M.Sc. in Informatics and Computing Engineering— 17/20

*Sept. 2019 – Jul. 2024*

### ▶ Chalmers University of Technology

Gothenburg, Sweden

Erasmus+ Program

*Aug. 2023 – Jan. 2024*

### ▶ Music Academy Viana do Castelo

Viana do Castelo, Portugal

Double Bass Basic Music Course

*2012 – 2016*

## Skills

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**Programming Languages:** Python (PyTorch, numpy, pandas, scikit-learn), C/C++, JavaScript, SQL

**Tools:** Git, Linux, Docker

**Languages:** Portuguese (Native), English (C1 Advanced — Cambridge Certificate)

## Interests

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**Areas:** Software Development; Autonomous Vehicles; Machine Learning; Crossfit/Sports