

Ricardo Cavalheiro, Informatics and Computer Engineering

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Date of birth 18/04/2001

LINKS [LinkedIn](#), [GitHub](#)

PROFILE I am a **Informatics and Computing Engineer** from Porto who just finished my bachelor's degree and excited to pursue a master's degree. I have a strong passion for technology and innovation, priding myself on my strong technical skills, problem-solving abilities, and ability to work well and communicate in a team.

PROJECTS

May 2022 — Jun 2022 **Transport Network Management**

Designed and developed an innovative application aimed at optimizing travel routes between two locations. This application efficiently calculates the most optimized paths by considering factors such as traveled distance, pricing, and the number of line changes required. The project's database is sourced from STCP (Sociedade de Transportes Coletivos do Porto).

Sep 2022 — Jan 2023 **Website Development**

Designed and developed an information system with a user-friendly web interface to support an online auction service. This platform enables registered users to effortlessly list items for auction and participate in bidding on existing items.

Feb 2023 — Jun 2023 **Back Account Fraud Detection**

Machine Learning project that centered around the application of machine learning models and algorithms, specifically focusing on supervised learning. This endeavor allowed me to leverage the power of these techniques to develop predictive models capable of classifying examples based on a specified target concept. In this project, I focused on data pre-processing, ensuring its quality and readiness for modeling and placed significant emphasis on evaluating the performance of the different classification models.

Mar 2023 — Jun 2023 **Kalisto Sensor Communication** Porto

Developed a robust web application that enables seamless communication with a Kalisto device equipped with sensors via Serial Port. This application serves as a bridge between the Kalisto device and a database, providing functionalities for device configuration, monitoring, real-time data visualization of sensor readings, and storage of sensor values.

Proposed and carried out in collaboration with **Fraunhofer Portugal**.

EDUCATION

Sep 2020 — Jun 2023 **Bachelor's degree, FEUP** Porto

Student of Informatics and Computer Engineer at Faculdade de Engenharia da Universidade do Porto.

SKILLS

C++	SQL
HTML/CSS/JavaScript	Microsoft Excel
PHP	Assembly
C	Git
Java	Laravel
Python	PostgreSQL

LANGUAGES Portuguese Native speaker English Highly proficient