



VASCO FERREIRA

Junior Python Developer | SQL, Data Analysis, Flask, PostgreSQL

EXTRACURRICULAR ACTIVITIES

Student Association Board Member – ISEP Students' Association (aeISEP)

Serving as a Sports Department representative, organizing student sports activities and promoting engagement within the academic community.

Engineering Intern – DevSquare, Unipessoal Lda

- Developed **Spot Hub**, a data-driven real estate management platform for managing builders, buildings, units, prices, users and analytics.
- Designed relational data structures using **PostgreSQL** and **Drizzle ORM** to support structured querying, data consistency and scalability.
- Implemented **CRUD** operations, dashboards and analytics features to support real estate business workflows.
- Worked with **TypeScript**, **Next.js**, **PostgreSQL**, **Drizzle ORM**, **Clerk**, **Tailwind CSS**, **GitHub**, **Jira** and **Vercel**.
- Gained practical experience in software architecture, database modelling, access control and deployment workflows.

PROJECTS

- **Spot Hub – Full-Stack Real Estate Management Platform (During internship)**
- **School Management Platform – Python Project**
Python, OOP, pytest, SQL planned

Developing a modular Python application to manage school operations such as students, teachers, schedules, assessments, roles and inventory. Practicing OOP, inheritance, service-layer thinking, testing and structured code organization.

SKILLS

- **Programming:** SQL, Python, JavaScript, TypeScript, C, MATLAB,
- **Python & Data:** Pandas, NumPy basics, Matplotlib, Plotly, data filtering, aggregation, reporting
- **Backend & Databases:** PostgreSQL, SQL queries, joins, aggregation, Drizzle ORM, Flask/FastAPI learning
- **Software Engineering:** OOP, Git, GitHub, pytest, modular architecture, clean code basics
- **Web:** React, Next.js, Tailwind CSS, HTML
- **Tools:** Jira, Vercel, Excel, SPSS, VS Code
- **Languages:** Fluent in English

ACADEMIC QUALIFICATIONS

Instituto Superior de Engenharia do Porto (ISEP)

- Master's Degree in Industrial Management Engineering (2025 – Present)
- Bachelor's Degree in Electrical and Computer Engineering (2023 – 2025)
- Bachelor's Degree in Electrical Engineering and Power Systems (attended up to the 2nd year; 2020 – 2023)

Warsaw University of Technology (WUT) – Faculty of Electronics and Information Technology

- Erasmus Exchange Program – 1st Semester of the Third Year (2024 – 2025)

Externato Camões / Escola Secundária de Ermesinde

- Science and Technology Course: 2017 – 2019 (11th–12th grades at Externato Camões; 10th grade at Escola Secundária de Ermesinde)

ABOUT ME

Electrical and Computer Engineering graduate currently pursuing a Master's degree in Industrial Management Engineering at ISEP. Strong interest in **Python** development, **SQL**, data analysis and data-driven decision making. Hands-on experience with **PostgreSQL**, **TypeScript** and full-stack development during an engineering internship, and currently building **Python** projects focused on **OOP**, modular architecture, testing, inventory management and data handling.

MAIN INTERESTS


- **Data Analysis & Data-driven decision making:** Extracting insights from data to support better decision making.
- **Programming & Web Development:** Software development and scalable web applications.
- **Industrial Systems & Automation:** Interest in industrial systems and process analysis.


HOBBIES:

- **Sports:** Basketball at aeISEP team, Running enthusiast and former football player.
- **Music:** Have been playing the guitar for 12 years.

WORK EXPERIENCE

- **Costumer Service Assistant-NOS cinemas** (Part time, 2019-2020; 2021-2022)
- **Delivery Assistant – Telepizza** (Part-time, 2021)

 Porto, Ermesinde

 935637765

 vascomferreira01@gmail.com