

## PROFILE

Informatics and Computing B.E. student at FEUP with a strong interest in problem-solving and algorithm design. Passionate about learning new technologies and contributing to projects, aiming to develop efficient and practical solutions. Open-source supporter.  
Looking for a summer internship to grow as a developer while making meaningful contributions to real-world projects.

## EDUCATION

### Faculty of Engineering of the University of Porto

*Bachelor in Informatics and Computing Engineering*

Porto, Portugal

*September 2022 – Present*

## EXPERIENCE

### Trainee

*NIAEFEUP*

October 2024 – Present

*Porto, Portugal*

- Developing a mobile app in Flutter made for students to help them organize their academic life and schedule more easily.
- Developer of the College Student's Association website using Svelte, Tailwind CSS, Kotlin and Spring Boot.

## PROJECTS

### Pacman | *Java, SOLID Principles*

December 2024

- Developed a text-based adaptation of the classic Pac-Man game using Java.
- Designed the project following SOLID principles for maintainability and scalability.
- Implemented object-oriented programming (OOP) techniques to modularize game logic and improve code reusability.

### Water Supply Management Analysis Tool | *Max-Flow Graph Algorithms*

April 2024

- Developed a graph-based tool to assist the Management Team of a water supply network in Portugal.
- Implemented Max-Flow Graph Algorithms to analyze network metrics, evaluate resilience and optimize resource allocation.
- Provided data-driven insights for resource allocation and identified potential improvements.

### L.EIC Schedules Management System | *Schedule Management, Sorting, Searching*

November 2023

- Created a system for managing a course schedule efficiently.
- Integrated algorithms for modifying, searching, viewing, sorting, and listing schedules.
- Designed an intuitive CLI interface for improved accessibility and usability.

### Image Editing Program | *C++, CLI, Image Processing*

May 2023

- Developed a simple C++ command-line tool for image manipulation tasks.
- Implemented key features such as cropping, mirroring, inverting, and pasting images.

## TECHNICAL SKILLS

**Programming Languages:** C, C++, RISC-V Assembly, Java, Python, SQL, HTML, CSS, JavaScript, TypeScript, Dart

**Frameworks:** JUnit, Mockito, Flutter, Vue.js

**Software Development:** Object-Oriented Programming, Design Patterns, Refactoring, Unit Testing, Debugging, Linux, Git

**Algorithms and Data Structures:** Algorithm Analysis, Algorithm Design, Graph Algorithms

**Databases and Data Analysis:** SQLite, PostgreSQL, MySQL, Pandas, Relational Algebra, Database Design

## LANGUAGES

**Portuguese:** Native

**English:** Highly Proficient