Tiago Alves
Informatics Engineering Student

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Objective

I am a fourth year student of the Integrated Masters in Informatics and Computation Engineering at the Faculty of Engineering of University of Porto (FEUP), and my goal is to take part in world-changing projects with the potential to make a positive impact in this world whilst working in a highly international and challenging environment.

Experience

NIAEFEUP | SEP 2019 - Present
Member

- We are the Informatics Division for the Student Union at FEUP.
- Organized/Participated in a variety of events and projects, ranging from AI to Mobile app Development.
- Member of the Program Department in SINF.

Board of European students of Technology | MAR 2016 - SEP 2018
Event Manager

- The organization strives to help European students of technology to become more internationally minded.
- I was the Case-Study responsible for EBEC-Portugal, the largest Engineering competition in Europe.
- Managed the Fund-Raising team in the Regional Meeting

NEEM FEUP | MAR 2016 - SEP 2018
External Relations Department

- Mechanical Engineering Student Branch in FEUP
- Organized many events, such as Career Fairs, Networking Sessions, Trips to companies.

Education

Integrated Master's In Informatics And Computation Engineering | Sep 2018 – Jul 2022
FEUP – Faculty of Engineering of the University of Porto

Integrated Master's In Mechanical Engineering | Completed 2 Years Sep 2016 - Jul 2018
FEUP – Faculty of Engineering of the University of Porto

Activities

Tuna de Engenharia da Universidade do Porto SEP 2018 - SEP 2019
External Relations Department

KU Leuven Faculty of Engineering Technology | Mar 2019 - Mar 2019
External Relations Department

- Two-week course on Artificial Intelligence, understanding neural networks and coding python scripts

National Technical University of Athens | Mar 2017 – Mar 2018

- Two-Week course on how to build your own start up, applying innovative ideas and in how to develop business skills

Technical Skills

- C++
- Java
- JavaScript
- HTML5
- Prolog
- CSS
- Python
- C
- SQL
- Git
- Latex
- Dart
- C#
- Unity
- Dafny
- Jade
- CSS
- PHP

Certificates

German Level: A1.2
Goethe Insititut

Certificate in Advanced English
Cambridge Assessment

First Aid Certificate
Red Cross, Porto

Projects

ExploreIT (Hiking Planner) ⧉

Hiking Planner in which the user can upload a map and discover what are the best Hiking routes considering many factors, such as time, distance, and difficulty. The project can be seen as a Vehicle Routing Problem with Time-Windows.
Technologies: C++

Folding Blocks (Puzzle) ⧉

Designed a Unity App with the purpose of solving the famous puzzle "Folding Blocks" using machine learning.
Technologies: C#,ml-agents,Unity

Chameleon (Board Game) ⧉

Created the project "Chameleon" using logic programming where the user can choose to play against an "AI" using the Minimax algorithm. Opted for a realistic 3D scene to enhance the user experience.
Technologies: JavaScript, Prolog, jQuery, WebGl.

Invicta (Website) ⧉

Real-Estate website built from scratch, where the users can list their houses for tourist to rent and make reservations. I had a major concern in the security of the website and in the user experience.
Technologies: PHP, JavaScript, jQuery, Ajax, SQLite, CSS, HTML5.