



João Ribeiro

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Education

Integrated Master in Informatics and Computing Engineering

2017 - 2022

University of Porto - Faculty of Engineering

- **Relevant coursework:** Graphical Computation, Algorithms and Data Structures, Data Bases, Web Development, Drivers, Computer Networks, Artificial Intelligence, Algorithms Design and Analysis, Software Engineering

Selected projects

Built a 3D Printer from scratch [Arduino, Blender, Cura, Autodesk]

Fev 2019 - Apr 2020

- Achieved a large volume 3D printer at half of the commercial value of a small printer, by assembling an Arduino and its respective hardware extensions
- Adapted and implemented the Marlin 3D printer software to be compatible with my setup and designed several 3D models using Blender/ Autodesk Maya

Low-level roguelite room-based top-down shooter game [C]

Set 2018 - Jan 2019

- Programmed several base peripheral devices such as the mouse, keyboard, GPU, CPU clock and serial port
- Programmed the game logic and designed all the game sprites/UI/animations

Rental Eye [CSS/PHP/SQLite]

Set 2019 - Jan 2020

- Designed and implemented a website for the rental of houses and apartments

Skills

Programming Languages:

C/C++ (3yr), Java (1yr), Java Script (1yr), WebGL (1yr), Lua/Scheme (6mos), Prolog (3mos), HTML/CSS/PHP (6mos), GDScript (2mos), Python (1mo)

Frameworks:

React (1mo), Laravel (3mos)

Technologies:

Git, SQLite, Godot, Unity, Unreal Engine, Blender, Autodesk Maya, Photoshop/Adobe Illustrator, Microsoft Office, Linux, VisualStudio, CLion/IntelliJ IDEA

Languages:

Portuguese (native), English (fluent), Spanish (can fully understand), French (basic)

Drivers Licence (B,B1)

Awards

- Open Source Siemens/Web Summit Competition - 2018 and 2019
- Honorable Mention Global Game Jam - 2018
- Finished high school with a GPA of 19/20 - 2017
- 1st place ChemRUs [National] - 2017
- 1st place Chemistry Rediscovered - Playing with chemical reactions [International] - 2017
- 3rd place "CienTistas e ArTistas II" Texas Instruments [National] - 2016
- Gold (2012) and Bronze (2014) at the International Mathematical Olympiad - Olimpíadas Paulistas
- Portuguese Mathematical Olympiad (Finals) [National] - 2012
- PMAT Top20 [National] - 2012, 2013, 2014

Extracurricular activities

- 3D modeling and printing commissions, such as deck boxes and statues
- Four Game Jams (Global Game Jam 2018/2019 and Retro Game Jam 2017/2019)
- Several game inspired cosplays (Big Daddy from Bioshock, F4k from Borderlands, etc) and built an Aluminum/Iron forge from scratch
- Was contracted to design a monogram for a wedding (and I have past visual design experience)