

Curriculum Vitae

Personal Information

Name: David Ricardo

Mobile: +351 924440594

E-mail: david.c.ricardo@gmail.com

Nationality: Portuguese

Portfolio: <https://davidcricardo.github.io/>

Profile

- Committed and motivated to work and to learn
- Good teamwork skills
- Organized, punctual, and persistent

Academic History

Post-Graduation in Methodologies and Techniques in Research Projects | UAIG | [Jan. 2022 - Sept. 2022]

- NILMforIHEM - Non-Invasive Load Monitoring applied to Intelligent Home Energy Management

Master's Degree in informatics engineering | UAIG | [2019-2021]

- Developed and implemented an Artificial Intelligence Social Architecture in the video game Mount&BladeII: Bannerlord to increase NPC Believability and User Experience.
 - Main technologies:
 - .Net version 4.7.2;
 - Using C# decompilers to get access to the original source code;
 - Extending behaviors with custom classes and algorithms;
 - Json for a more data driven approach; enables easier data modifications.
- Security Camera – Leveraging the mobile's camera to record and check if there is something or someone, increasing the security for that place. If there is any significant change, the program will send messages that there is something wrong.
 - Main technologies:
 - Developed using MATLAB;
 - Algorithm has as parameters the difference between images for motion detection;

First Degree in Computer Science | ISTECH | 2016-2019

- Most Relevant Project: Two Factor Authentication

This Project was the final project done and presented in the last year of bachelor's degree. Had as topic the activation of Authentication Two Factor. To enable the Authentication Two Factor, it is required to create an account on the website, to install the app on the smartphone, and to proceed with the confirmation to activate the 2FA. Then, for the user login into the website's account, it is necessary to enter the password account and to activate the 2FA on the smartphone.

Techs used:

- C#, using Xamarin, to develop the mobile App;
- PHP to make the connection between the App and the server/website; Also used when making the website to register and enable the 2FA.
- Learned core concepts in development, focused on C#, C++, PHP.
- Learned core concepts of working with databases: SQL, MySQL.

January 02, 2023

Software

- Unreal Engine
- Sourcetree
- Unity
- Sculptris

Foreign Languages:

- English

Professional History

Junior Developer | NUKKLEAR PT [Jan. 2023 – On going]

Projects (removed projects before 2017)

- Tales Of Shadows - Game developed on Unreal Engine (C++ and Blueprint) to explore and study the game engine. Art sourced from Marketplace; the code was fully developed by me. [2019]
- Basic Game Launcher - Developed using WPF on Visual Studio for testing purposes. [2019]
- Asteroids Clone - Game developed on Unreal Engine (essentially C++) in 7 days. Art sourced from Marketplace; the code was fully developed by me. Objective: survive as long as possible and to destroy asteroids to get points. [2020]
- Kan Samurai – Developed using Unreal Engine and Paragon/Infinity Blade assets. [2020-2021]
- InventorySystemCpp – Project fully developed in C++, using Unreal Engine. [2022]
- Raven Landscape – Mini Game developed on Unreal Engine (Blueprint). Released on Halloween [2022].