

Igor Carvalho

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github.com/IgorCarvai/SampleProjects

EDUCATION

Rensselaer Polytechnic Institute (RPI) - Troy, NY - Expected Graduation May, 2018

B.S. in Computer Science and Game Simulation Arts and Science - GPA: overall 3.21/4.00, Spring 2017 3.66/4.00

Boston College High School - Dorchester, MA - 2010-2014

High School Diploma - GPA: 3.8/4.0

LANGUAGES/SOFTWARE

Spanish, Portuguese, C, C++, C# Java, Python, Photoshop, Autodesk Maya, Visual Studios, Unity, Unreal.

Limited/Gaining experience: Html, MIPS Assembly, Salsa, Oz, Prolog, Erlang, OpenGL, Sol, Lua

PROJECTS

Liveware – *Rensselaer Polytechnic Institute Fall 2017*

- Project with Professor Shawn Lawson in which live coding is used to display art with a audio input
- Working on the compatibility and communication between Sol2, Lua, and C++ to get live coding to be efficient

Pacman Project – *Rensselaer Polytechnic Institute Spring 2017*

- Implement an AI for Pacman in Python
- Worked with different search algorithms such as BFS, DFS, A* and with reinforcement learning

Planet Adventure Game – *Rensselaer Polytechnic Institute Spring 2017*

- A Unity 5.5 space adventure game where the player finds himself in an unknown planet and must escape
 - Implemented a planet gravity system for the player in C# also did most of the level design and player mechanics
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COURSES

User Experience Design, Computer Graphics, Operating Systems, 3D Bootcamp, Principles of Software, Art for Interactive Media, Art Code and Interactivity, Intro to Algorithms, Computer Organization, Foundations of Computer Science, Data Structures

EXPERIENCE

Student Mentor - Computer Science Department - Troy, NY - Fall 2017 - Present

Mentored students taking Computer Science 1. This was in a lab scenario and in a individual basis when it came to homework or in the understanding of Python, the language used for Computer Science 1.

Student Orientation Coordinator - Office of First Year Experience - Troy, NY - Summer 2015, Summer 2016

Introduce and organized events for over 1700 incoming first year students and families to RPI. Trained in public speaking, diversity, LGBTQ, international orientation and more.

Resident Assistant - Office of Living and Learning - Troy, NY - Fall 2017 - Present

Ran and help programs for over 50 residents. Through the Office of Living and Learning I learned public speaking, conflict resolutions, diversity training and more.