Bruce A. Berrios

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Education

Florida International University   *Fall 2018 – Present*

Bachelor of Arts in Computer Science

- 3.820 GPA
- Florida Academic Scholars Award
- Gold and Blue Merit Scholarship
- Dean's List

Projects

Graphing Calculator   *Dec 2019 – Jan 2020*

Desktop Application | Lua - LÖVE2D - Git/GitHub

- A collaborative project with the goal of creating a desktop application that allows users to graph any function. It also features the ability to compute bounded integral approximations.

Pathfinding Algorithm Visualization Tool   *Oct 2019 – Dec 2019*

Web Application | JavaScript - HTML - CSS

- Developed a web application that allows users to interact with and visualize common pathfinding algorithms. Some of these algorithms include Breadth-first Search, Best-first Search, and A*.
- Users can modify a uniform-cost grid by opening/closing nodes.

Handwritten Digit Classifier   *Sep 2019 – Oct 2019*

Machine Learning | Lua - LÖVE2D

- Built a neural network from scratch to classify handwritten digits from the MNIST dataset.
- Users can visualize the training process and interact with the neural network by controlling the training speed and the source of the input data (training/testing).

Coursework

Data Structures	Fund. Of Computer Systems	Programming 1
Programming 2	Databases (Spring 2020)	Systems Programming (Spring 2020)

Skills

Java	Lua	HTML	CSS	JavaScript	Git/GitHub
Python	Bootstrap				