

# Bruce A. Berrios

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## Education

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### 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

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### Graphing Calculator

Dec 2019 – Jan 2020

*Desktop Application | Lua - LOVE2D - 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 - LOVE2D*

- 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

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

## Skills

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Java	Lua	HTML	CSS	JavaScript	Git/GitHub
Python	Bootstrap				