

# Arturo Portelles

✉ [aport090@fiu.edu](mailto:aport090@fiu.edu)  [github.com/Arturoo0](https://github.com/Arturoo0)  (786) 384-2196  [arturoportelles.me](http://arturoportelles.me)

## EDUCATION

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### Florida International University

2018 – December 2021

#### *Bachelor of Arts, Computer Science*

- 3.72 GPA
- Dean's List
- Bright Futures Scholarship (Florida Academic Scholar)
- Courses taken: Programming 1, Programming 2, Programming 3, Data Structures, Discrete Structures, Intro to Databases.

## EXPERIENCE

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### Queentessence

#### *Software Engineering Intern*

March 2020 – June 2020

#### *Aventura, Florida*

- Developed and collaborated on key user features using the Django web framework, Python, Docker, JavaScript, jQuery, HTML, CSS, Bootstrap, and GitLab for version control.
- Implemented under my team a fully functioning analytics dashboard in which I designed and integrated the user interface as well as pulled and processed data from the back-end for display in a way that allows clients to better understand aspects of their business.
- Worked with internal and external API's on tasks such as serializing key user data for display and integrating a live chat module on the existing code base.
- Worked in conjunction with the UI/UX designer to implement some features on the platform webpage.
- Learned practical development practices following a Scrum methodology using Jira.

## PROJECTS

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### Graphing Calculator

#### *Desktop Application - Lua / Löve / GitHub*

- A collaborative project built from scratch with the purpose of graphing a wide range of functions. The application is able to graph and return an approximated bounded integral of the passed function using Riemann sums.

### Maze Generator and Pathfinding Visualizer

#### *Desktop Application - Python / Pygame / GitHub*

- The application generates random mazes of variable size using a Backtracking algorithm. After generating the maze it animates the 'flood filled' path and the solution path using Breadth First Search on the open nodes of the maze grid.

### "WebSort" (Sorting Visualizer)

#### *Web Application - JavaScript / HTML / CSS / GitHub*

- Sorting visualizer allowing the user to select from a variety of different popular sorting algorithms. The user is able to alter the number of elements and speed of the animation.

## SKILLS

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Python

Git/GitHub

Lua

HTML

CSS

JavaScript

Node.js

REST API's/API's

Express

Java

