

# ANDREW SANDELL

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## Education

### University of Florida

- Bachelor of Science, Computer Science
- Bachelor of Arts, Economics
- GPA: 3.72

Gainesville, FL

**Graduating May 2022**

## Relevant Coursework

- Programming Fundamentals 1 & 2
- Data Structures and Algorithms
- Introduction to Computer Organization
- Info and Database Systems 1
- Engineering Statistics
- Principles of Microeconomics & Macroeconomics
- Intermediate Microeconomics & Macroeconomics
- Competition in Healthcare Markets
- Economic Geography

## Technical Skills

### Programming Languages: Development Software:

- |              |                           |
|--------------|---------------------------|
| ➤ Java       | ➤ Microsoft Visual Studio |
| ➤ C++        | ➤ PyCharm                 |
| ➤ Python     | ➤ CLion                   |
| ➤ C#         | ➤ IntelliJ                |
| ➤ R          | ➤ Eclipse                 |
| ➤ JavaScript | ➤ Rstudio                 |
| ➤ HTML       | ➤ Unity                   |
| ➤ CSS        | ➤ Brackets                |
| ➤ PHP        | ➤ Text Editor             |

## Projects

### Hippo-Spotamus | Python, Tkinter, and Spotify Web API

**December 2020**

- Spotify Playlist Generator drawing from Spotify data set of ~170,000 songs to produce playlist similar to a given input. Playlists are generated using min-heap and weighted graph traversals.

### Orebit | C#, Unity

**February 2020**

- Top-down scroller/shooter game developed with team during 48-hour Global Game Jam event.

### Binary File I/O Image Processing and Manipulation | C++

**March 2020**

- Program that reads in a binary file and translates it to pixels. Processed images can be multiplied, overlayed, subtracted, and blended to create a .tga image output.

### Minesweeper | C++, SFML Library

**April 2020**

- Recreation of classic game from ground-up. GUI created by accessing sprites and textures from the SFML library.

### Adjacency List PageRank | C++

**November 2020**

- PageRank program that calculates relative PageRank scores and performs power iterations through extensive matrix multiplication using the adjacency list data structure.

## Involvement

### UF College of Liberal Arts and Sciences | Student Mentor

**August 2020 – Present**

- Lead weekly meetings with mentee to provide academic advising, community connections for Graduate School applications, service opportunities, and other guidance.

### UF BCM | Core-Team Member and On-Campus Discussion Leader

**August 2019 – May 2020**

- Oversaw theological discussions during weekly meetings of 10-20 attendees
- Hosted weekly on-campus events (i.e., game nights) involving 30+ attendees.

### UF Honors Program | University Admissions Board Member

**August 2018 – January 2019**

- Served on the board for the admissions of Class of 2023 students. Chosen due to own exemplary essay that was later showcased as a template for future essays.
- Reviewed and graded ~900 student essays and determined their admission into the UF Honors Program.