# Harrison 7hu

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#### Education \_\_\_

## Georgia Institute of Technology

Atlanta, GA

CANDIDATE: B.S. IN COMPUTER SCIENCE

Aug. 2019 - (Expected) May 2023

• Relevant Coursework: Intro to AI, Objects and Design, Data Structures and Algorithms, Intro to Object-Oriented Programming, Discrete Math, Linear Álgebra

• ĞPA: 4.0

## **Chattahoochee High School**

Johns Creek, GA

Aug. 2015 - May 2019

SUMMA CUM LAUDE GRADUATE

Relevant Coursework: AP Computer Science A

• GPA: 4.0

### Skills

**Programming Languages** 

Java (proficient), Python (proficient), CSS (intermediate), HTML (intermediate), JavaScript (basic)

**Technologies** 

Git (intermediate), LATEX (intermediate), fastai/PyTorch (intermediate), GIMP

(intermediate), Final Cut Pro (intermediate)

# Experience \_\_\_\_\_

**Ultimate Software** 

Atlanta, GA

SOFTWARE ENGINEERING INTERN

May 2020 - Aug. 2020

• Internship offer accepted, but deferred due to the COVID-19 pandemic.

### Georgia Institute of Technology

Atlanta, GA

Undergraduate Teaching Assistant: CS 1332 (Data Structures and Algorithms)

Jan. 2020 - Present

Assisted in the grading of course projects and exams.

UNDERGRADUATE TEACHING ASSISTANT: PHYS 2211 (INTRO PHYSICS I)

Jan. 2020 - Apr. 2020

· Led and organized instruction during lab sections, managed equipment, and graded assessments.

## Projects \_\_\_\_

# **String Instrument Image Classification**

Jul. 2020

- Used the fastai library on top of PyTorch to build and refine a machine learning model that distinguished between instruments (specifically between violins and cellos).
- · Adapted, tuned, and exported the ResNet-34 convolutional neural network for use in transfer learning between the ImageNet dataset and the custom instrument dataset.
- Modified template HTML, CSS, and JavaScript code in order to deploy the image classification model as a web app using Render.

#### **Cover Type Prediction**

- Used the scikit-learn, pandas, and numpy libraries to predict and analyze the type of tree in a forest given a list of over 50 attributes.
- Visualized and discovered patterns and clusters within the dataset using the Seaborn library.
- Adapted a Random Forest model in order to classify cover types in forests.

#### **Georgia Tech Ping-Pong Website**

Oct. 2019

- Contributed to a website that tracked when ping-pong tables were in use around the Georgia Tech campus.
  Formatted the website's main table using the HTML link element to access the W3.CSS framework.
- Used the W3.CSS framework to dynamically adjust table size, add table shading, format assets, and format buttons.
- · Created JavaScript functions to change color of table elements using onclick events and the id property.

#### Honors & Awards \_\_\_

2020	CS2340 Top Scorer, Scored the highest out of 104 students in CS2340 (Objects and Design)	Atlanta, GA
2019	Finalist, National Merit Scholar - Southern Company Scholarship	Atlanta, GA
2018	Finalist, Georgia Governor's Honors Program	Rome, GA