

EDUCATION

Georgia Institute of Technology
Bachelor of Computer Science, Minor in Mathematics

Aug 2019 - May 2023

RELATED COURSEWORK

Intro to Object Oriented Programming
Data Structures and Algorithms

Linear Algebra
Second Course in Linear Algebra

Intro to Physics I, II
Intro to Multivariable Calc

PROJECTS

Undergraduate Research — Under the direction of Prof. Wenke Lee

- Dockerized a Celery worker with a frontend api through RabbitMQ broker that runs a binary packaging identifier ML model and sends results through MongoDB
- Created a filtering system for memory dumps that displays information about the relevant parts of the main binary and identify irrelevant information (windows loader, etc) using python
- Investigated ways to create a new binary with the dumped data of packed binaries for further dynamic analysis

Tennis Ball Tracking Drone

- Programmed a DJI drone to track tennis ball using python and Tello SDK
- Filtered the video input of the drone using HSV values to separate the tennis ball color
- Traced the tennis ball shape and detected the ball shape using OpenCV Cascade Classification
- Calculated the center and the radius of the ball and calculated the delta values for x, y, z coordinates

Linear, Multivariable Regressions

- Created linear and multivariable regressions from scratch using python and libraries like NumPy and pandas
- Learned the mathematical model for recursive regression algorithms
- Tested the algorithm by training the Titanic-passenger-data and predicting the survival rate of each passenger

Data Science at Georgia Tech — Member

WORK EXPERIENCE

Amazon Future Engineer EarSketch Competition— Judge

Nov 2019 - Jan 2020

- Judged Python codes that K-12 students created to make an original remix of Ciara's song through EarSketch

Paul Bennett Architects, New York, NY— Intern

Sep 2017 - Jun 2018

- Created architectural models for simulations and demonstrations
- Assisted architects by researching and recording construction site surroundings

New York Youth Symphony, New York, NY— Assistant Concertmaster

Sep 2016 - May 2019

- Performed at Carnegie Hall Stern Auditorium 9 times
- Helped the members of the orchestra regarding techniques, musical ideas and interpretations

SKILLS

Python, Java, Adobe Photoshop, Adobe Illustrator, Adobe InDesign, Adobe Animate, Microsoft Office, Google Drive