

# JOHN WASHBURN

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## EDUCATION

### Georgia Institute of Technology

BS Computer Science | GPA: 4.0 | 100 Credit Hours Completed

- Concentrations in Intelligence and Modeling/Simulation

Atlanta, GA

August 2020 - May 2023

### Clemson University Honors College (Transferred)

BS Computer Science | GPA: 4.0 | President's List

Clemson, SC

August 2019 - May 2020

## EXPERIENCE

### White Cap

Strategic Finance Intern

Atlanta, GA

May 2021 - August 2021

- Used correlation analysis to help with the identification of high/low performing branches
- Utilized branch performance data to pick out attributes of a potential branch location that would likely lead to success

### National Institute of Standards and Technology (NIST) / Clemson University

Software Engineering Intern | Atomic Spectroscopy Group

Gaithersburg, MD (Remote)

May 2020 - August 2020

- Developed an automated calibration procedure for the Electron Beam Ion Trap instrument
- Extensively used NumPy and SciPy as well as statistical concepts of error, uncertainty, and chi-square goodness of fit to achieve a high level of precision and accuracy in the calibration
- Produced research-quality calibrations for use in scientific publications.

### Momentum Management

IT Intern

Alpharetta, GA

June 2019 - August 2019

- Assisted with the implementation of a new management information system.
- Wrote Python scripts to automate data entry roles, scrape convention center data, and categorize cities by geographic location.

### Axis Group

Data Science Intern

Atlanta, GA

January 2019

- Learned various statistical and machine learning methods for interpreting data using SciKit-Learn and Pandas in Python
- Audited training courses and presented a review for upper management team on the quality of each course.

## SKILLS

**Programming Languages (In Order of Proficiency)** Java, Python, JavaScript, C, C++, HTML, CSS

**Software Frameworks** MongoDB, Flask, AWS, Google Cloud Products

**Data Science + ML** NumPy, SciPy, Pandas, Matplotlib, Web Scraping, SciKit-Learn

**Mathematics** Discrete Mathematics, Probability and Statistics, Multi-Variable Calculus, Linear Algebra

## LEADERSHIP AND INVOLVEMENT

### HackGT - Tech Team Developer

December 2020 - Present

- Develop software tools in the MERN stack for the southeast's premiere collegiate hackathon organization, a 501(c)(3) nonprofit that throws events for upwards of 1000 participants annually.

### GTSF Investments Committee - Quant Sector Analyst

September 2020 - Present

- Assist in management of the \$1.7 million endowment fund for the Georgia Tech Student Foundation.
- Selected as analyst after completing competitive semester-long mentorship program

### CS 1332 - Data Structures and Algorithms Teacher's Assistant

January 2021 - May 2021

- Teach weekly recitation sections on Data Structures and Algorithms concepts such as binary search trees and graph algorithms
- Grade student assignments and hold office hours to answer student questions in a 1-on-1 environment

### CUhackit - Tech Director

December 2019 - May 2020

- Lead a sub-team of developers to organize the annual hackathon hosted by Clemson in January.
- Responsible for development of <http://cuhack.it> and participant check-in systems to manage/display data of 250+ participants

## PROJECTS

### Lead Dog | Intelligent Instagram Analysis

Winner: Best Use of MongoDB @ Hacklytics 2020

- Accessed Instagram's private API to scrape mass amounts of user data
- Created a support vector machine classifier to determine if a particular account is likely to follow the user back
- Generated web crawlers to manage the automatic following/unfollowing of users that are deemed most likely to follow back

### Kuratorio | Legal Document Translation

Runner-Up: Equity @ HackSC 2020

- Designed a web app in Flask for converting PDF immigration forms to accessible web forms in any language supported by the Google translate API
- Utilized Amazon Textract for pulling text and coordinates from legal documents