JOHN WASHBURNE

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EDUCATION

Georgia Institute of Technology **Atlanta, GA**
BS Computer Science | GPA: 4.0 | 100 Credit Hours Completed *August 2020 - May 2023*
- Concentrations in Intelligence and Modeling/Simulation

Clemson University Honors College (Transferred) **Clemson, SC**
BS Computer Science | GPA: 4.0 | President's List *August 2019 - May 2020*

EXPERIENCE

HD Supply (Incoming) **Atlanta, GA**
Strategic Finance Intern *May 2021 - August 2021*

National Institute of Standards and Technology (NIST) **Gaithersburg, MD (Remote)**
Software Engineering Intern | Atomic Spectroscopy Group *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. (Pending Publication and Co-Authorship)

Momentum Management **Alpharetta, GA**
IT Intern *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 **Atlanta, GA**
Data Science Intern *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 Python, Java, C++, C, HTML, CSS, JavaScript
Software Frameworks MongoDB, Flask, AWS, Google Cloud Products
Data Science + ML NumPy, SciPy, Pandas, MatPlotLib, Web Scraping, SciKit-Learn
CS Concepts Object-Oriented Design, Data Structures, Algorithms (Greedy, Divide-Conquer, Dynamic Programming)
Mathematics Discrete Mathematics, Probability and Statistics, Multi-Variable Calculus, Linear Algebra

LEADERSHIP AND INVOLVEMENT

HackGT - Tech Team Developer **December 2020 - Present**
- Develop software tools for the southeast's premiere collegiate hackathon organization, a 501(c)(3) nonprofit that throws events for upwards of 1000 participants annually.
- Developer for check in systems and AppGT subteams using MERN development stack

GTSF Investments Committee - Utilities 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 2020 - Present**
- 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.
- Responsibilities included development of http://cuhack.it and participant check-in systems to manage and display data of 250+ participants

PROJECTS

Lead Dog | Intelligent Instagram Analysis **Winner: Best Use of MongoDB @ Hacklytics 2020**
- Accessed Intagram'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

Kuratoro | Legal Document Translation **Runner-Up: Equity @ HackSC 2020**
- Designed a web app in Flask for converting PDF immigration forms to accessible web forms, available in any language supported by the Google translate API
- Utilized Amazon Textract for pulling text and coordinates from legal documents