JOHN WASHBURNE

200 Tifton Lane. Roswell, GA 30075 | 404-615-0565 | johnwashburne@outlook.com | johnwashburne.com

EDUCATION

Georgia Institute of Technology   **Atlanta, GA**
BS Computer Science | GPA: 4.0 | 82 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

National Institute of Standards and Technology (NIST)   **Gaithersburg, MA (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 Node, MongoDB, Express, React, Typescript, Flask, Django, AWS, Google Cloud Products, Docker
Data Science + ML NumPy, SciPy, Pandas, MatPlotLib, Web Scraping, SciKit-Learn
CS Concepts Object-Oriented Design, Data Structures, Algorithms, RESTful APIs, Unit Testing
Mathematics Discrete Mathematics, Probability and Statistics, Multi-Variable Calculus, Linear Algebra

LEADERSHIP AND INVOLVEMENT

HackGT - Tech Team Developer   **December 2020 - Present**
- Selected through competitive application process to develop software tools for GT's flagship hackathon group, a 501(c)(3) non-profit that throws events for upwards of 1000 participants annually.
- Develop for check in systems and AppGT subteams using MERN web development stack

GTSF Investments Committee - Utilities Sector Analyst   **September 2020 - Present**
- One of the largest student-run endowments in the country. Over $1.7 million current AUM
- Selected as analyst after completing semester-long mentorship program

CS 1332 - Data Structures and Algorithms Teacher's Assistant   **January 2020 - Present**
- Grade assignments, teach weekly recitation sessions, and hold office hours to answer student questions

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