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 August 2019 - May 2020

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

EXPERIENCE

Gaithersburg, MA (Remote)

National Institute of Standards and Technology (NIST)

May 2020 - August 2020

Software Engineering Intern | Atomic Spectroscopy Group

- 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, TensorFlow, SciKit-Learn

CS Concepts Object-Oriented Design, Data Structures, Algorithms, RESTful APIs, Unit Testing

Software Design Patterns Decorators, Template Hook Pattern, Model View Controller, Observer Pattern, Factory Method Pattern Mathematics Discrete Mathematics, Probability and Statistics, Multi-Variable Calculus, Linear Algebra

LEADERSHIP AND INVOLVEMENT

HackGT Atlanta, GA

Tech Team Developer December 2020-

- Selected through competitive application process to develop software tools for GT's flagship hackathon group, a 501(c)(3) nonprofit that throws events for upwards of 1000 participants annually.
- Develop for the check in systems and AppGT subsystems

CS 1332 - Data Structures and Algoritms

Atlanta, GA

Teacher's Assistant

January 2020-

Grade assignments, assist in recitation teaching, and hold office hours to answer student questions

CUhackit Clemson, SC 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

Georgia Tech Lacrosse Club Atlanta, GA

Practice for 2 hours a day, 3 days a week and compete nationally against other colleges each spring

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