JOHN WASHBURNE

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EDUCATION

Georgia Institute of Technology Atlanta, GA

BS Computer Science

August 2020 - May 2023

Clemson, SC

• Concentrations in Intelligence and Modeling/Simulation

Clemson University Honors College (Transferred)

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 archaic data entry roles, merge old datasets, 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

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

Communication Technical Reports, Presentations, Microsoft Office, Adobe Creative Suite

AWARDS

- Best Use of MongoDB Hacklytics 2020 (Atlanta, GA)
- Runner-Up: Equity Category HackSC 2020 (Los Angeles, CA)
- Finalist VandyHacks 2019 (Nashville, TN)
- Best WebDevHack CUhackit HelloWorld 2019 (Clemson, SC)
- US Lacrosse Academic All-American 2019

LEADERSHIP

Tech Director

CUhackit Clemson, SC

• Lead a sub-team of developers to organize the annual hackathon hosted by Clemson in January.

• Responsibilities include development of cuhack.it and participant check-in systems to manage/display data of 250+ participants

Clemson Crew Rowing September 2019-May 2020

Practiced for 2 hours a day, 5 days a week and competed against other universities across the southeast

September 2017-May 2019

• Two-year team captain for my high school cross country and lacrosse teams

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 most likely to follow back

Kuratoro | Legal Document Translation

Runner-Up: Equity @ HackSC 2020

December 2019-May 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