CARTER LOCKWOOD

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Skills/Capabilities/Expertise

- Technical Skills: Data Mining and Processing, Statistical Analysis, Data Visualization, Web Scraping, Natural Language Processing, Optimization, Spreadsheet Modeling, Web Application Development
- Languages: Python, R, SAS, SQL, C#, JavaScript, Java
- Frameworks/Libraries: Pandas, Numpy, NLTK, BeautifulSoup, Django, Flask, Jekyll, JQuery
- Tools: Git, Adobe Creative Suite 6 Certification, Microsoft Office

Education

The University of Alabama, Tuscaloosa, AL	**The University of Alabama,** Tuscaloosa, AL
Master of Science in Business Analytics	Bachelor of Science in Management Information Systems
May 2021 GPA: 3.30/4.00	May 2019 GPA: 3.60/4.00

Project Experience

COVID-19 Case Competition Project, Tuscaloosa, AL   **August 2020 – Present**
Team Lead

- Conducting analysis on COVID-19 data from Johns Hopkins University, Bing, and The New York Times in conjunction with a sample of over four million tweets collected from March 2020 and October 2020
- Developing functions in Python for reading in JSON tweet data, assigning general sentiment polarity scores, tokenizing tweet content, topic modeling, and other natural language processing techniques with tools like NLTK and VADER
- Mapping trends in sentiment and topics across Twitter at a county level using Geo-Tags and FIPS codes in R
- Using regression models to visualize correlations between sentiment shifts and jumps in COVID-19 mortality rates

JLAS Corrugated Box Consulting Project, Tuscaloosa, AL   **August 2020 – Present**
Data Analyst

- Using R and SAS to gain insights from historical purchase order data and create pricing matrix to aid client in minimizing future costs
- Extensively cleaning large set of manually-entered corrugated box purchase order data with R and dplyr
- Built interactive web application to predict optimized minimum product cost given a number of specific decision variables

BarnworX Capstone Team, Tuscaloosa, AL   **January 2019 – May 2019**
Technical Lead

- Developed enterprise web application for managing horse farm business operations using Sencha Ext JS
- Built models and corresponding application controllers for project using both Java and Ext JS
- Carefully managed the product backlog and regularly met with client to ensure accurate fulfillment of product vision

Work Experience

Radiance Technologies, Huntsville, AL   **May 2019 - Present**
Web Development Associate

- Work with small development team building a full-stack web application supporting Directed Energy division within the Engineering Services Group
- Use front-end libraries including Chart.js, Bootstrap, and JQuery with Python web framework Django in conjunction with MySQL and PostgreSQL backends to provide application structure
- Directed local deployment using Apache HTTP Server and mod_wsgi
- Began working part-time on call starting August 2020 in order to pursue graduate degree

Van Valkenburgh and Wilkinson Properties Inc., Huntsville, AL   **April 2016 – August 2017**
Real Estate Sales Associate

Honors/Leadership/Activities

- Presidential Scholarship
- Honors College Graduate
- Believe UA Mentorship Leader
- Sigma Nu Fraternity: Executive Council; Recorder; Judicial Board
- Student Government Association Senator
- President's List (1); Dean's List (4)

- Order of Omega Greek Honors Society, Order of Alpha Honor Society, Phi Eta Sigma
- Interfraternity Council Philanthropy Committee
- Played guitar at 150+ social events in 11 different cities across the southeast with various bands since 2016