

CARTER LOCKWOOD

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Skills/Capabilities/Expertise

- Technical Skills: Statistical Analysis, Machine Learning, Data Visualization, Optimization, Natural Language Processing, Web Scraping, Parallel Processing, Web Application Development, Database Management
- Languages: Python, R, SAS, SQL, C#, JavaScript, Java
- Libraries/Frameworks: NumPy, Pandas, Scikit-learn, NLTK, PySpark, Matplotlib, Bokeh, Gurobi, Django, Jekyll, jQuery
- Tools: Git, SAS Enterprise Miner, JMP, Adobe Creative Suite 6 Certification, Microsoft Office

Education

The University of Alabama, Tuscaloosa, AL
Master of Science in Business Analytics
May 2021 GPA: 3.43/4.00

The University of Alabama, Tuscaloosa, AL
Bachelor of Science in Management Information Systems
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
- Integrating SafeGraph foot traffic data and Census API data to analyze the impact of COVID-19 on rural medical providers

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
- Working with Gurobi Optimizer in Python to identify solutions for real distribution and sourcing problems

Alabama Medicaid Case Management Project, Tuscaloosa, AL

August 2020 – December 2020

Data Analyst

- Used recent Alabama Medicaid Agency data to develop several binary classification models for determining which Medicaid recipients are most likely to engage in case management services
- Created decision trees, neural networks, and logistic regression models within SAS Enterprise Miner and used built-in comparison tools to analyze results on validation dataset

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: 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