Sharon Lyu

728 Carbray Ct., South Plainfield, NJ, 07080 | (216) 703 - 0651 | SihuiLyu@outlook.com

EDUCATION

Case Western Reserve University 08/2019 - 01/2021

Master of Science in Operations Research and Supply Chain Management, GPA: 3.60/4.0

Wuhan University of Technology 09/2016 - 06/2020

Bachelor of Science in Logistics Engineering, GPA: 3.54/4.0

Relevant Courses: Data Structure, Algorithms, Database, Computer Simulation, Advanced Python

SKILLS

Programming Languages: Java, Python, C/C++, JavaScript, HTML/CSS, SQL, R

EXPERIENCE

Bettaway Supply Chain Service, South Plainfield, NJ 08/2021 - Present

Logistics Data Analyst

- Designed a Python program that can automatically generate weekly trailer usage and expense reports.
- Established the connection to company's database using Python pyodbc module and applied SQL queries to integrate it with TMW database, including joining different tables with unique filters.
- Cleaned and combined duplicate or missing data using Python pandas and numpy modules. Implemented functions to create daily dashboards, which can reflect transportation KPIs, freight costs and detention costs.
- Visualized large quantities of data using Matplotlib and Seaborn to help the team recognize cost patterns and fleet usage.
- Improved the efficiency of the report generation process. Helped the company collect millions of debts from freight brokers such as J&J, Coyote, etc.

Athersys, Cleveland, OH 02/2021 - 06/2021

Supply Chain Intern

- Applied Machine Learning models and used ERP software to forecast hundreds of key raw materials' demand and generate production plans.
- Used regression models to analyze material demand history data from the company's database and aligned with ERP prediction.
- Integrated data from past few years and used Power BI to visualize materials consumption and sales patterns to balance supply and demand and keep safety stock.

PROJECTS

Travel Better 09/2020 - 01/2021

- Built a Python program that displays the least-cost sequence of flights between cities.
- Fetched thousands of flight fare information through UA flight data API. Applied Dijkstra's algorithm to calculate the least cost between whatever pairs of cities presented.
- Helped customers who desire to travel to multiple cities to plan their trips and reduced their travel costs.