Rui Wang

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EDUCATION

Columbia University   **New York, NY**
Master of Science in Applied Analytics   Expected May. 2024
GPA: 3.99/4, Major GPA: 3.99/4
University of Massachusetts, Amherst (UMass Amherst)   **Amherst, MA**
Bachelor of Science in Informatics   Sept. 2018 – Dec. 2022
Honor: Dean's list (2022, 2023); Chancellor's Award

COURSEWORK

Cloud Computing, Data Mining in Business, Statistical Modeling for Health Data Science, Python for Data Analysis, Business Intelligence and Analytics, Managing Data Online, Web Programming, Meth Applied Statistics, Strategy and Analytics

WORK EXPERIENCE

Undergraduate Course Assistant, **Course Informatics 203: A Networked World**, UMass Amherst   Sept.2022 – Dec.2022
- Collaborated closely with Professor Mohammad to establish grading criteria for assignments.
- Assisted over 50 students with course concepts, homework, and projects, graded tests, and aligned with the professor's teaching schedule for student success.
- Maintained consistent and effective communication with Professor Mohammad, who has provided an exceptional recommendation for my contributions and performance.

INTERN EXPERIENCE

Data Analyst, **Danfoss Energy Company,** Remote (Online)   Sept. 2023– Dec. 2023
- Analyzed employee performance rating and job satisfaction using sentiment analysis and algorithms such as Employee Net Promoter Score to produce data reports.
- Was responsible for data visualization related work and weekly progress reports.

Data Analyst, **Walmart (China)**, Remote (Online)   May 2022 – June 2022
- Filtered and cleansed data of 1000+ clerks' working time and product sales from 100GB+ data.
- Analyzed 1000+ clerks' daily and monthly working data using SQL.
- Generated employee effectiveness chart using SQL showing 1000+ employees' hourly efficiency of 100+ branches in South China; created employee effectiveness report for the reference of sales evaluation for Walmart China.

Data Management Intern, **Morningstar, Inc.**, Shenzhen, China   May 2019 – June 2019
- Cooperated with business departments and global branches to complete data collection, analysis, and evaluation of financial status and business trending.
- Organized and updated company's financial data in the system; offered technical support to 5+ online meetings and business coordination requests from U.S. Headquarters.
- Managed and integrated financial data in front and back ends; assisted with web design and creation.

PROJECTS

U.S. Mutual Funds Historical Data Search Website, Columbia University   Sept. - Dec. 2023
Project Manager and Data Analyst
- Led the development of a cost-efficient web application, ensuring a balance between functionality and budget considerations.
- Managed the use of Amazon S3 for data storage, AWS EC2 & CLI for web traffic, RDS & PostgreSQL for data querying, Jupyter Notebook for development, and Flask on EC2 for interface design, enhancing application stability and cost-effectiveness.
- Spearheaded original data cleansing and constructed the S3 infrastructure within AWS.
- Coordinated team members, overseeing project workflow and ensuring timely completion of objectives.

Audience Reception of Movies base on Sentiment Analysis, Columbia University.   May. 2023 – Aug. 2023
Data Analyst
- Collaborated with an analyst to validate mathematical models and confirm data correlations.
- The team's collaborative efficiency led to the successful completion of the project, with the professor deeming our conclusions to be highly persuasive.
- Utilized R to clean, process, and merge a dataset comprising over 1.4 million reviews of 140,000+ unique movies, enhancing the usability and efficiency of the data for further analysis.
- Analyzed the positive and negative keywords for each genre and observe which keywords are more common in a particular genre.

Movie Recommendation System, Columbia University   May. 2023 – Aug. 2023
Project Manager and Data Analyst
- Built a 'Movie Review Recommendation System' that leveraged large datasets for data-driven insights, effectively recommending movies by analyzing and interpreting reviews.
- Developed a system for predicting film audience ratings, earning full credits from our professor. The project featured a stable back-end, user-friendly front-end with fuzzy search recommendations, and visual score charts. We used MongoDB, Apache Spark, Flask, and coded in Python and SQL, making it easy for all users to search and compare movies.

Mental Health Care Data Visualization Project, Columbia University   Jan. 2023 – May. 2023
Technician
- Presented interactive data maps as the lead speaker, visualizing untreated adults in the USA across NYC's boroughs using R and Leaflet. Developed a color-coded map with hover details for ethnic group percentages and an integrated pie chart for easy data comparison. Managed GeoJSON and CSV data integration with the sf library.

SKILLS

- Programming: AWS, SQL, Python, Java, R, Tableau, JavaScript, CSS, HTML
- Languages: Mandarin & English (Fluent)