MIN (MIA) SHI

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Open to positions in Data Analyst, Database Administration, Business Intelligence (BI) Analysis

Education

The University of Texas at Dallas Richardson, TX **Anticipated December 2023**

Doctor of Philosophy in Political Science *GPA: 3.924/4.0*

Master of Science in Social Data Analytics and Research *GPA: 3.924/4.0*

Master of Science in Business Analytics *GPA: 4.0/4.0*

Work Experience

Research Assistant *The University of Texas at Dallas, Richardson, TX* **May 2020 - Present**

- Accomplished data cleaning, transformation, and feature extraction for a collection of 1212 cross-country surveys using Python, which increased work efficiency by three times than expected using excel, R & Stata
- Used machine-learning models – decision-tree, support vector machine to conduct a cross-cultural corruption analysis, leading to an increase in accuracy by 80 % compared to linear regression models
- Performed data collection of 1291 supreme court cases using web-scripting, utilized time-series models in analyzing time gaps among case's schedules

Database Management Intern *Lucion Technology Corp., Ltd., China* **July 2017 - August 2017**

- Collaborated with IT department manager and used MySQL to manage all enterprise users' information, orders of internet & information services, billing information, and the deployed network devices data, which improved data extraction efficiency by 100%
- Visualized network structures of Lucion Tech. Corp. using Microsoft Visio
- Created over ten BI reports based on analysis of users' structure, competitors, and market trends

Project Experience

Payroll Management System Database Design via MySQL **June 2022 - August 2022**

- Led a group of five in conducting business requirements analysis and designing a payroll management database with MySQL consisting of 13 tables
- Created stored functions, procedures, and triggers to calculate employees' payroll per two weeks, fill in new employee's information, send PTO reminders automatically
- Performed extract-transform-load, data cleaning, and query optimization

Modeling U.S.-China Trade War's effect on U.S. Firms using ML and Time Series **January 2022 - May 2022**

- Utilized Pandas, NumPy, Matplotlib & Seaborn in data cleaning, visualization, and transformation
- Leveraged sentiment analysis to explore how the U.S. frame 2018 U.S.-China trade war
- Applied regression analysis in exploring the causal mechanism between trade war and S&P 500 revenues
- Built machine learning (ML) models in predicting the profound influence of the trade war on U.S. firms
- Used time-series GRACH models to evaluate MNCs' revenue & volatility quantified via stock data in Stata
- Presented at 2022 International Society for Data Science and Analytics Conference

COVID-19 Worldwide Cases Synchronous Dashboard using Tableau **December 2021 - January 2022**

- Designed a synchronous Tableau dashboard with advanced interactive functions to explore COVID-19 severity
- Utilized Tableau to probe the correlation among factors and the severity of COVID-19 by country
- Produced business intelligence reports based on Tableau visualization results

Skills

Programming	Python, R, SQL, Stata
Visualization	Tableau, Jupyter Notebook, Excel Charts, R Shiny
Database	MySQL, PostgreSQL, Amazon RDS, AWS Azure
Language	English, Chinese, Japanese

Awards

Government and Political Science Scholarship *by The University of Texas at Dallas* **2022**

Eligibility

VISA *Eligible to work in the US for internships and full time for up to 36 months*