MIN (MIA) SHI

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Skills

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

Education

Master of Science in Business Analytics **Anticipated May 2024**
The University of Texas at Dallas, Richardson, TX *GPA: 4.0/4.0*

Master of Science in Social Data Analytics and Research **Anticipated May 2024**
The University of Texas at Dallas, Richardson, TX *GPA: 3.924/4.0*

Doctor of Philosophy in Political Science **Anticipated May 2024**
The University of Texas at Dallas, Richardson, TX *GPA: 3.924/4.0*

Work Experience

Research Assistant *The University of Texas at Dallas, Richardson, TX* **May 2020 - Present**
- Initialized a database about over 200 nations' COVID-19 governmental responses in relation to Ebola preparedness
- Conducted a cross-cultural corruption analysis using regression and t-tests based on a collection of 1212 cross-country surveys
- Performed highly accurate data collection of 1291 supreme court cases' schedules and time-series analysis about time gaps
- Investigated the benefits connection among U.S. government officers, senators, representatives, and U.S. firms

Database Management Intern *Lucion Technology Corp., Ltd., China* **July 2017 - August 2017**
- Collaborated with IT department manager in building a database managing all enterprise users' information, orders of internet & information services, billing information, and the deployed network devices data using MySQL
- Built comprehensive network topologies for visualizing network structures of Lucion Tech. Corp. and its users
- Created over 10 business intelligence (BI) reports based on analysis of users' structure, competitors, and market trends

Data Analyst Intern *Jinan Wangjia Education & Technology Corp., Ltd., China* **March 2016 - June 2017**
- Upgraded staff & students information management using Microsoft Access database system
- Designed questionnaires for assessments of more than 20 courses & teachers, created BI reports for course & staff management, improved satisfaction rate by 30%

Project Experience

Payroll Management System Database Design via MySQL **June 2022 - July 2022**
- Coordinated a group of five people and designed a comprehensive payroll management database 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

Modeling U.S.-China Trade War's effect on US Multinational Corporations **January 2022 - May 2022**
- Applied Pandas & NumPy in U.S.-China trade data cleaning process, visualized data via Matplotlib & Seaborn, evaluated the correlation among variables through statsmodels, SciPy, and scikit-learn packages
- Built GARCH models using Stata to evaluate the effects of tariff rates & sentiment changes reflected in U.S. government press releases & official tweets on MNCs' revenue & volatility quantified via stock data
- 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 factors affecting the severity of COVID-19 by country and found the underlying connection between multiple factors and COVID-19 severity

Content Analysis of US-China News Articles with Machine Learning **August 2021 - December 2021**
- Led an analysis on how news organizations frame 2018 U.S.-China trade war during the 2018-2022 period
- Leveraged machine learning skills such as top modeling, sentiment analysis to explore a collection of over 500 news articles
- Implemented time-series analysis and chi-squared test in modeling sentiments change tendencies among news coverage
- Selected as iPoster and expected to be presented at 2022 APSA Annual Meeting & Exhibition

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*