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

Work Experience

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

- Initialized a database about over 200 nations' COVID-19 governmental responses in relation to Ebola preparedness
- Conducted data cleaning and a cross-cultural corruption analysis on a collection of 1212 cross-country surveys
- Performed highly accurate data collection of 1291 supreme court cases' schedules and basic time gap analysis
- Investigated the benefits connection among U.S. government officers, senators, representatives, and U.S. firms

Database Management Intern *Lucion Technology Corp., Ltd.*   **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.*   **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**

- Led 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 in modeling sentiments change tendencies, and applied Linear Regression in exploring the correlation between U.S. and China trade tariff changes and news coverage sentiment changes

Education

The University of Texas at Dallas   **August 2019 – May 2023** *(Expected)*
Ph.D. in Political Science, specifically International Relations   *GPA: 3.917/4.0*

The University of Texas at Dallas   **August 2021 – May 2023** *(Expected)*
M.S. in Social Data Analytics and Research   *GPA: 3.917/4.0*

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*