

Zion Sheng

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EDUCATION

Pratt School of Engineering, Duke University

Durham, USA

Master of Engineering in Electrical and Computer Engineering

Aug 2022 – now

School of International Trade and Economics, Central University of Finance and Economics

Beijing, China

Bachelor of Economics

GPA: 92.15/100, GPA: 3.89/4.0 WES

Sep 2017 – Present

University of California, Los Angeles

Los Angeles, USA

2020 Summer Session

GPA: 4.0/4.0

Aug 2020 – Sep 2020

Courses: MATH 151B Applied Numerical Methods, MATH 33B Differential Equations, and MATH 180 Algorithms

University of California, Los Angeles

Los Angeles, USA

2019 Summer Session

GPA: 3.5/4.0

Aug 2019 – Sep 2019

Courses: MATH 131A Analysis, and STATS 102B Introduction to Computation and Optimization for Statistics

WORK EXPERIENCE

Beijing Didi Infinity Technology and Development Co., Ltd.

Beijing, China

Data Analysis Intern, Data Operations Department

Dec 2020 – Present

- Wrote Hive SQL scripts to query data and compute business indicators from Hive databases. Imported data into Tableau and VBA, created Tableau dashboards to visualize business indicators and analyzed the change of indicators.
- Carried out cluster analysis based on users' behaviors and characteristics data to group users by their preferences for different services. Conducted time series analysis on the operating status in different cities to predict the supply and demand of the future travel service market.

Gaosheng Information Technology Co., Ltd.

Hefei, China

Winter Intern, Big data Laboratory of R&D department

Jan 2020 – Mar 2020

- Employed Python and SQL to automate collecting, cleansing, and managing millions of entries of stock price data, wrote modules to compute key metrics, and create data visualization to monitor the change of stock price, as well as capital inflows and outflows in the stock market.
- Assisted in prototyping NLP and deep learning models for sentiment analysis of stock news, and cooperate with the software team in integrating the sentiment analysis functions into the company's software for stock market analysis.

ACADEMIC EXPERIENCE

The Impact of Foreign Waste Imports on the Health of Chinese Residents

Feb 2018 – Oct 2018

- This project focused on studying the impact of imported foreign garbage on the incidence of certain diseases of residents in several Chinese cities from 2000 to 2017.
- Collected data on foreign waste imports, residents' health indicators, and other control variables. Used SQL to organize the data and build the database.
- Used the R language to perform regression analysis on those data. The models and methods applied include instrumental variable, two-stage least square, and fixed effects model.

International Tax Health Index Database Project

Jul 2018 – Sep 2018

- Devised a new index to reflect the annual international taxation competitiveness and neutrality of each country.
- Used the text extracting and web scraping methods in Python to collect the international tax policy and tax rate data from PDF reports and web pages. Applied the principal component analysis (PCA) to reduce the dimension and calculate the weights of factors for our tax health index.

EXTRACURRICULAR ACTIVITIES

Vice President, Mathematical Modeling Club, CUFE

Sep 2017 – Sep 2018

- Led lectures and training sessions to train more than 80 students on methods and tools for mathematical modeling, including differential equations, optimization methods, MATLAB and Python.

Team Leader, Student Ambassador Volunteer Activities, CUFE

Oct 2017 – Apr 2018

- Led a team of student ambassadors to visit high schools and hold info sessions on college life at CUFE for hundreds of high school students and answer questions on the admission process and the college entrance exam.

ADDITIONAL ITEMS

Skill Toolbox: Data science, Machine Learning, Web development

Programming Languages: Python, C/C++, Java, HTML5, CSS3, Javascript, R, SQL.