

Zhiyuan Yang

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EDUCATION

University of California, San Diego

Sep. 2018 — Mar. 2023

Bachelor of Science, Major: Mathematics and Economics, Minor: Data science

Related Courses: Introduction to Programming and Computational Problem-Solving, Data Structures and Algorithms, The Practice and Application of Data Science, Basic Data Struct & OO Design, Software Tools & Techniques Lab, Computer Organization and Systems Programming, Systems for Scalable Analytics, Probabilistic Modeling and Machine Learning.

WORK EXPERIENCE

Beijing Infrastructure Investment Co., Ltd | Beijing, China

Jun. 2020 — Sep. 2020

Data Scientist Intern

- Processed and analyzed 800+ financial data from different departments using SQL and Excel
- Built brief predictive models of the trend of infrastructure market using Python
- Presented financial condition of the company and proposed future strategies using data visualization

Master of Class Co., Ltd | Remote

Feb. 2021 — Aug. 2021

Math tutor and teaching assistant

- Tutored math class of students in high school remotely
- Taught students how to solve math problems and gave advice on math learning
- Assisted teacher in online instruction

University of Science and Technology Beijing | Beijing, China

Jul. 2021 — Sep. 2021

Research assistant

- Collected and analyzed data of technology companies in Asia for academic research.
- Led the discussion of students and communicated with the professor.
- Participated in the research of "An overview of the financial conditions of Asia IT companies in 2020."

PROJECTS

Regression model of allegations of U.S. Police department in New York

Apr. 2021 — Jun. 2021

Course Project

Built a regression model that predicts the length of time an allegation incident solved giving the information of the complainant, officer and the incident.

- Cleaned and processed the data from 5000+ allegation incidents in New York City using Pandas, Numpy, OneHotEncoder, PCA, StandardScaler, and Binarizer.
- Built predictive model of the time an allegation incident solved and evaluated the accuracy of model using sklearn model and pipeline.
- Presented the data and model using data visualization

Data analysis of tuition cost and earnings of students in U.S universities

Jan. 2022 — Apr. 2022

Personal Project

Analyzed data from U.S. department of education to build a model of the relationship between tuition and earnings.

- Cleaned and processed the data from U.S. department of education of 400+ universities in the U.S. from 2010-2018 using Java, STATA, and R.
- Built predictive model and data visualization of the cost of tuition and earnings

SKILLS

Python, Java, C, C++, JavaScript, HTML, CSS, SQL, MySQL, STATA, R, MATLAB