Zelong/Alan Wang

Contact

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Test Taken

GRE Verbal: 162 GRE Quantitative: 169

Skills

Python

Proficient

stata

Very Good

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Good

SQL

Good

Microsoft Office Suit

Good

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Average

MATLAB

Average

Git/Github

Average

ableau

Average

HTML

Some Experience

Mandarin

Excellent

Time management

Excellent

Education

The University of California, San Diego | 2020-Present | GPA:3.98

B.S | Data Science

Related Coursework: Python, Java, HTML, Data Structures, Data Science Algorithms, Web Scraping, Data Mining, Visualization, Machine Learning, NLP basics, Deep Learning, Recommender System, Network Science & Graph Theory.

Note: Will learn big data and systems such as MapReduce/Hadoop and Spark systematically this Winter. I would have some good understanding

and practice before next summer.

B.S | Joint Major in Math and Economics

Related Coursework: Calculus, Linear Algebra, Numerical Analysis, Optimization, Probability, Statistics, Microeconomics, Macroeconomics, Econometrics (t, z, Chi-squared, F test, Regressions, experiment design, panel data, etc.), Operations Research.

Experience (Sorted by starting time)

Tech Consulting Intern | IBM Consulting | Sep. 2022 - Present

Currently reading documents and gaining background knowledge about the cement industry and a company's current situation.

Researcher | Professor Dale Squires and Professor Richard Carson | July 2022 - Present

- Explore the underlying pattern in terms of international organizations and their membership fees.
- Reports review and data collation.
- Automatically extract prepare data from low-quality UN reports (1950-2022) using Python, some APIs, and AWS.

CSE-PACE Program Designer | UCSD CSE Department | Apr. 2022 - Sep. 2022

- Searched and reviewed a miscellaneous assortment of papers, articles, programs, and games. (approx. 30 pages/week)
- Design CSE cohort programs and build 7 courses on various CS/DS related topics.

Research Assistant | UCSD Professor Richard Carson | Dec. 2021-Present

- Did literature review and gained background knowledge on discrete choice models and related topics.
- Arranged and corrected research data to create representative graphs intended for academic paper. (approx. 60 drafts)
- Coded Monte Carlo Simulation in Stata. Performed qualitative analysis. Coded to achieve conditional logit model.

Data Analyst/Tech VP | Lumnus Consulting (Student Enterprise) | Nov. 2021-Present

- Collaborated with other leaders to identify and prioritize problems. Organized team events and fostered team communication. Responsible for website maintenance using React.js and Heroku.
- Built prediction models based on historical Instagram and Twitter data. Created visualizations and analyses for the team. Delivered project presentations on how we should present our organization on social media.

Tutor & Math Team Leader | 2019 - 2021

Data Manager & Builder | Robotics Team | 2018 - 2020

Self-Driven Projects

Forage Data Analytics Virtual Experience programs | Python, Tableau, Excel, Git

- "Accenture": After cleaning data anomalies and merging data in **Python**, created **Tableau** dashboard that demonstrates relationships between key features. Practiced storytelling and **presentation** skills by delivering our findings.
- "BCG": Deployed automatic EDA using SweetViz. Defined, assigned price sensitivity to each customer. Tested hypothesis by permutation test, K-S test, and heat map. Predicted customer churn by Random Forest and XGBoost.

Analysis of Power Outage Status in the Continental U.S. | Python, Excel

Went through the full process of questioning, researching, data cleaning & EDA, missingness assessment, hypothesis
test, baseline model, scikit-learn ML pipelines, final model, and fairness analysis.

Indian Crop Production and Indian Climate Analysis | Python, Slides

- Literature review on previous reports about Indian agriculture, pastoralism, and climates.
- Data gathering, data mining, interactive visualization using bs4, JSON, Geopandas, Altair, Folium, Plotly.
- Reported findings and provided suggestions.

Simple Language Model | Python

- Web scraping for specific books from a public book website. Tokenize corpora.
- Created an N-Gram Language Model that can generate paragraphs resembling the style of an author or a book.

Wealth Prediction based on 1991 Survey of Income and Program Participation (SIPP) | R

• Applied EDA, feature engineering. Incorporated and compared polynomials and splines in GAM. Tested full OLS, Lasso, Ridge, Stepwise regression model and Random Forest model.