

Weihang Gao

8550 Costa Verde Blvd, APT#5418, San Diego, CA 92122

Tel: 8589228311 Email: weg021@ucsd.edu

EDUCATION

University of California-San Diego - La Jolla, CA

Aug 2017 - Jul 2021

- Major: Data Science
- Minor: Cognitive Science
- GPA 3.6 out of 4

INTERNSHIP EXPERIENCE

University of California- San Diego, Tutor

Jan 2019 - Apr 2019

- Tutored "*Programming and Basic Data Structures for Data Science*", a core course for undergraduate students majoring in data science (10 hours per week).
- Held lab hours to help students work on lecture materials and programming assignments.
- Graded student's assignments and exams on Grade-scope.

Shenzhou General Data Technology Ltd, Program Developer

Jun 2018 - Sep 2018

- Used SQL to manipulate data on Shentong Database.
- Crawled articles on several Chinese online forums and imported data into database

RESEARCH EXPERIENCE

Government Spending Research

Sep 2020 - Current

- Utilized database from USASPENDING to analyze contracts' features by different ways.
- Predicted cost overrun values for contracts.
- Used several Python libraries (DASK, VAEX, RAPID) to handle large-scale datasets and build machine learning models.

INTEL System Usage Analysis (Senior Project)

Sep 2020 - Current

- Explored and analyzed datasets from Intel System Usage Report (SUR) by Python and SQL.
- Focused on battery-usage data and aimed to protect battery from energy-consuming devices or applications.

COVID-19 Geographical Analysis

Sep 2020 - Current

- Built predictive models with multiple data sources, such as Google Mobility Report, CDC COVID Cases Report, Yelp reviews, Twitter API, and articles scraped from news websites.
- Applied Natural Language Processing techniques (topic modeling and sentiment analysis) to text data from Yelp reviews, Twitter, and news articles.
- Connected to CANotify team and work on COVID-19 prediction and analysis.

PROJECTS

Podcast Pro

- Built an outline tool to automatically produce short summary for each lecture podcast.
- Utilized Amazon Web Service to transcribe lecture audio and extract texts from lecture video.

Little Little Car

- Built models and pipelines to predict price of used cars.

Job Aid

- Crawled data of internships from GlassDoor.
- Applied exploratory data analysis and generated key words for each position.

EXTRACURRICULAR ACTIVITY

UCSD Chinese Student & Scholars Association (CSSA), Vice President Mar 2019 - Mar 2020

- Organized academic and career-oriented events, such as career fair, intern experience sharing panel, and graduate school application workshop.
- Liaison between CSSA and UCSD offices, such as International Student Program Office, Academic Integrity Office, and Students Life Business Office.

UCSD Chinese Computer Community (Triple C), Tech Lead Sep 2019 - Mar 2020

- Worked as Tech lead of Podcast Pro team
- Worked with project manager to lead team, made timeline, assigned weekly tasks to members, and presented project demos on Triple C Demo Day.
- Helped team members on theoretical questions and technical issues.

AWARDS AND HONORS

- 2017 Fall UCSD Term Provost Honors
- 2018 Spring UCSD Term Provost Honors
- 2018 Fall UCSD Term Provost Honors
- 2019 Winter UCSD Term Provost Honors
- 2020 Spring UCSD Term Provost Honors

PROGRAMMING LANGUAGES

- **Python, Java, SQL, R, MATLAB, C#**