



Zhaoyi Hou



Experience

07/2019 - present

Data Scientist Intern

Salk Institute for Biological Studies

- Processing and formatting research data (up to 10,000 pieces)
- Conducting hypothesis tests and visualizing data for presentation

02/2019 - present

Research Programmer

UC San Diego Shiley Eye Institute (Dr. Chao's Lab)

- Working on an Ophthalmology project that automatically measures patients' eye statistics.
- Use image recognition framework including Opencv in Python.

03/2018 - present

Student Tutor (DSC20 - Intro to Data Structure)

UCSD CSE Department

- Explained data structures in Python to students.
- Helped students on homework and tested & graded their homework.

06/2018 - 08/2018

Mobile Frontend Developer (Intern)

Xinhua News Agency - Technology & Innovation Center

- Designed mobile websites for various topics, based on the needs of editors.
- Used popular front-end development libraries like Node, Fullpage, jQuery.



Projects

04/2019 - 05/2019

Beijing Housing Price

A Data Analysis & Machine Learning Project

- Used Beijing house price data from Kaggle (originally from Lianjia.com)
- Analyzed 300,000+ pieces of house data
- Built a prediction model with lower than 10% error rate.

01/2019 - 03/2019

Used Car Price Predictor

A Data Analysis & Machine Learning Project

- Used Python BeautifulSoup to fetch 1.9 million used car data from the web.
- Used Scikit-Learn to predict the used car price with given make, model, year, and mileage.

01/2018 - 01/2018

"Calorie Calculator & Advisor "

A Web Crawler Project in Python

- Built a calorie calculator based on daily menu of school dining halls.
- Used BeautifulSoup to fetch menu.



Extracurricular Activities

External Social Media Chair - UCSD Chinese Computer Community (Active)

- Managing the social media of the project-based student organization.
- Producing media content related to CS community.

Chief Editor - Panopath Social Media Department (Inactive)

- Helped Chinese students learn about U.S. college life without any charge.
- Had more than one million subscribers on WeChat.



Education

present

University of California, San Diego

- Expected Graduate: June 2021
- Major: Data Science (B.S.)
- Minor: Communication
- UC-GPA: 3.77



Skills

Python



Familiar with Pandas, SeaBorn, Beautifulsoup, Request, Scikit-Learn, etc.

Data Analysis



Familiar with linear regression, Z-test, T-test, etc; also familiar with the usage of Python Pandas, Numpy, SciPy, etc.

Data Visualization



Familiar with Seaborn and Matplotlib; understand the basis of Tableau.

Machine Learning



Familiar with Sci-kit Learn; also familiar with machine learning techniques like K-NN, Decision Trees, Perceptron, Boosting, etc.

Object Oriented Programming



Familiar with data structures in Java, C/C++.

Web Dev



Familiar with Ajax and jQuery; understand the basis of Node.js.



Contact Me

Personal Website

JoeyHou.github.io

Phone

(858) 729-8929

E-mail

z9hou@ucsd.edu

GitHub

github.com/JoeyHou