

JiaLin Hu

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Education

University of California San Diego

Data science major

Sep 2022 – Present

San Diego, CA

Pasadena City College

Computer science major

Sep 2019 – Jun 2022

Pasadena, CA

Academic Projects

Plagiarism Checker

May 2023 – Jun 2023

Dsc 20

- Implemented efficient hash table structures to store and process text data from multiple files.
- The program accepts an undetermined number of file arguments and calculates the percentage of line similarity between each file pair.
- Applied optimization techniques to achieve $O(n)$ runtime, balancing computational efficiency with memory usage.

Comic Book Data Analysis

Mar 2023 – April 2023

Dsc 10

- Conducted extensive data cleaning and preprocessing to handle missing values and inaccuracies in publicly sourced data.
- Utilized Python and data analysis libraries for data manipulation, ensuring accuracy in handling large datasets.
- practical experience in dealing with real-world data, emphasizing the importance of meticulous data validation and cleaning.

Professional Experience

Teaching Assistant

Sep 2022 – Dec 2022

University of California San Diego

San Diego, CA

- Collaborated with instructor and 5 other TAs to lead recitations, grade coursework, and answer 60+ students' questions.

Cofounder Business Lead

Jan 2023 – May 2023

Jali (University of California San Diego Startup Accelerator)

San Diego, CA

- Pitched to a private therapy provider to raise 5K for creation of subscription based web application that helps university students with autism and/or ADHD achieve academic goals.
- Surveyed 20+ students and consulted with board certified therapists to create alpha prototype.
- Pitched weekly throughout the accelerator program and ultimately chosen as top 10 of 50 teams.

Skills

Programming Languages: Python, R, Java, Scala, C, C++, JavaScript, HTML, CSS, Lua
Big Data & Machine Learning: Spark, Hadoop, MongoDB, Python (eg. scikit-learn, numpy, pandas, matplotlib)

Data Science & Miscellaneous Technologies: A/B testing, ETL, Data science pipeline (cleansing, wrangling, visualization, modeling, interpretation), Statistics, Time series, Experimental design, Hypothesis testing, OOP, OOD, APIs, Excel, Git