Christine Wu

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SUMMARY

Mathematics and Computer Science student with a minor in Data Science and Business Economics from UC San Diego. Proficient in multiple programming languages, specializing in software development methodologies, data structures implementation, and data modeling techniques. Demonstrated leadership in organizations and a proven track record of tackling challenging projects. Excited to apply my experiences to excel in SDE related internships, integrating data-driven approaches.

Skills: Python, Java, C++, Javascript/CSS/HTML, SQL(MySQL/PostgreSQL/SQLite), R

Language Proficiency: English, Chinese

EDUCATION

University of California, San Diego, Eleanor Roosevelt College

Bachelor, Mathematics - Computer Science B.S.   **Expected June 2025**

- GPA 3.82
- Minor in Data Science, Business Economics
- Course highlight: Data Structures, Design and Analysis of Algorithms, Computer Organization and Systems Programming, Theory of Computability, Statistics, Machine Learning, Visualization, Data Systems, Recommender Systems and Web Mining, Linear Algebra, Calculus, Abstract Algebra, Discrete Mathematics, Graph Theory

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EXPERIENCE

Individual Project Website   **Dec/2023-Present**

- Developed a responsive personal website including prior games and projects focusing on data structures, using Javascript/CSS/HTML with ScrollReveal, Fontawesome, and Typed JS

University of California, San Diego   **Sep/2023-Dec/2023**
Personalized Recommender System for Shopping Customer Report

- Conducted full research on predicting item star ratings in the context of recommender systems using item-user based reviews from Epinions dataset in the language Python and on Google Colab
- Applied similarity prediction models and latent factor models to explore and project user preferences

Hainan Current Culture Media Co., Ltd. Content Production Department   **July/2023-Sep/2023**
Mathematical Animation and Creation Internship

- Used open-source Python library Manim and Github to create explanatory mathematical videos programmatically with SciPy, Pango, and Latex for company instructor
- Completed animation videos including the calculation of Pi, squared triangular number, and area of basic shapes

University of California, San Diego   **Apr/2023-Jun/2023**
Recipe Rating Model Building and Analysis

- Created a website that shows the process of predicted ratings of recipes using Pandas, NumPy, Beautiful Soup, and sklearn from Python to conduct modeling, feature engineering and build pipelines
- Trained a model on 20000+ data using feature transformations on discrete quantitative and nominal qualitative features

University of California, San Diego   **Jan/2023-Mar/2023**
Java Music Database Recommendation Playlist

- Built a music player application allowing users to ask for recommendations, maintain multiple playlists and play modes, add, play, and delete songs with Java
- Using hash table, tree map, priority queue, and array list data structures with other imports to passed over 100 test cases

Chinese Students and Scholars Association, San Diego, CA   **August/2021-Present**
Vice President March/2024-Present

- Coordinate and supervises all student event planning, fundraising, and other activities and assist all officers and other principal members, responsible for all Treasurer and CFO tasks of the association
- Manage Publicity, Academic and Career Development, and Technology Department, and attend weekly meetings