

CHRISTINE WU

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Education

University of California, San Diego

Sep. 2021 – Jun. 2025

B.S. in Mathematics Computer Science; Data Science and Business Econ Minor; GPA: 3.80

San Diego, CA

Relevant Coursework

- Data Structures
- Algorithms Analysis
- Software Engineering
- Systems Programming
- Computability Theory
- Machine Learning
- Data Systems
- Graph Theory&Algebra

Experience

Hainan Current Culture Media Co., Ltd.

July 2023 – Sep 2023

Software Developer Intern

Beijing, China

- Developed interactive math tutorials with Python Manim, creating educational animations to enhance visualization.
- Collaborated to design user-friendly interfaces for an educational platform, improving accessibility and engagement.
- Optimized rendering and animation processes, reducing load times and enhancing performance.
- Assisted in integrating math visualization components into a web app, enhancing interactivity and responsiveness.

Projects

Banking App with Finance Management Dashboard | *Next.js, TypeScript, Plaid API, ShadCN, Git* **October 2024**

- Developed a financial management dashboard with Next.js for real-time transaction insights across linked bank accounts
- Integrated Plaid API for secure bank account linking and real-time transaction display
- Implemented fund transfer capabilities with Dwolla API, allowing seamless and secure money transfers between accounts
- Configured Appwrite for backend functions including handle user authentication, data storage, and API management

Note Taking App | *React, JavaScript, HTML, CSS, Git*

September 2024

- Developed a dynamic note-taking app using React, enabling users to create, edit, and organize notes with custom labels
- Implemented a favorite system for marking and unmarking notes as favorites, with real-time updates to the favorite list
- Styled the app using CSS and managed state with React hooks to ensure a responsive and user-friendly interface

Personalized Recommender System for Shopping Customer | *Python, Google Colab*

October 2023

- Conducted research on predicting item ratings using item-user based reviews from the Epinions dataset
- Applied similarity prediction and latent factor models to explore and project user preferences
- Utilized Python for data processing and modeling, leveraging libraries like Pandas and scikit-learn

Java Music Database Recommendation Playlist | *Java, Unit testing, VS Code*

February 2023

- Built a music player application allowing users to recommend songs, manage playlists, and play tracks
- Implemented key data structures such as hash tables, tree maps, and priority queues to handle user data efficiently
- Testing with Junit, ensuring the application's robustness and functionality in real-world scenarios

2048 Puzzle Game GUI | *Java, Eclipse, JavaFX*

February 2022

- Developed 2048 puzzle with a dynamic 4x4 grid and tile movement/merging logic, allowing for interactive gameplay
- Implemented game mechanics including tile spawning, scoring, and game-over detection, utilizing OOP principles
- Designed a user-friendly GUI with customized tile colors and text sizes, and handled user input with JavaFX

Technical Skills

Languages: Python, Java, C, C#, C++, HTML, CSS, JavaScript, SQL, Bash, TypeScript

Developer Tools: VS Code, Eclipse, IntelliJ IDEA, Docker, GitHub Desktop, Jupyter Notebook, Colab, Xcode

Technologies/Frameworks: Linux, GitHub, Git, JUnit, React, Node.js, TensorFlow, Keras, Pandas, NumPy, Scikit-Learn, Manim, MongoDB, MySQL, PostgreSQL, SQLite

Leadership / Extracurricular

Chinese Students and Scholars Association

August/2021-Present

Vice President, Publicity Department Head, Member

University of California, San Diego

- Led 90+ members and executive board of 11 promoting social, academic, and cultural activities of Chinese students
- Launched Ucircle, a WeChat mini-program developed by students, as the official communication district with 500+ users
- Partnered with student organizations and local businesses, boosting event sponsorships and resources by 30%