

# Kelsey Zhong Zhou

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## EDUCATION

**University of California, Berkeley**

**Expected May 2025**

*Bachelor of Arts in Computer Science, Economics, and Data Science | GPA: 3.81/4.00*

**Relevant Coursework:** Data Structures and Algorithms, Data Science Principles and Techniques, Discrete Mathematics and Probability, Linear Algebra and Differential Equations, Full Stack Development, Efficient Algorithms, Database Systems, Computer Security

## PROFESSIONAL EXPERIENCE

**GlaxoSmithKline**

**May 2024 - Aug 2024**

*Incoming Data Engineer Intern*

**Nom menu**

**May 2023 - Dec 2023**

*Software Engineer Intern*

- Develop the foreign currency support feature for both the admin and user end, allowing admin and users to access price in 2 different currencies for the #1 ranked hotel in Mexico and LA using React, JavaScript, CSS, HTML
- Modify the UI functions and used CSS to adjust the UI layout for the product page that has over 2 million views with React

**Relationships and Social Cognition Lab**

**Jan 2023 - Present**

*Undergraduate Researcher*

- Automate the data cleaning process for the study and use the Gini coefficient to analyze the influence of the uniqueness of self-aspect in emotional diversity for over 200 participants in the study, created the model using Seaborn and Pandas
- Sort, calculate, and analyze individual response regarding individual's stress level before and after a conversation using Pandas

**Berkeley Chinese Student Scholar Association**

**Sep 2021 – Present**

*Vice President; Director of Culture Affair Department*

- Managed and performed in the Chinese New Year's Eve show, attracted over 2000 viewers online and in-person
- Directed the White Valentine's special event, including the creation, promotion, and execution process, which drew over 2000 viewers and over 100 participants
- Led the year's largest dating show with over 300 participants, with responsibility for writing scripts, directing, live-streaming

**Compsci 88C: Computational Structures in Data Science**

**Feb 2023 - Aug 2023**

*Academic Intern*

- Prepared and assisted lab sections and student support office hours for all academic questions for over 300 students in Compsci 88C, including topics on recursion, OOP, abstract data type, environment diagrams, higher order function and SQL

## PROJECT EXPERIENCE

**Spotify API | React, JavaScript**

- Created a Spotify API that extracts user information and top played songs to create personalized dream playlists.
- Design and develop the frontend features with React, structured promise objects and implemented asynchronous methods

**Build Your Own World | Java**

- Devised and developed a 2D tile-based world exploration engine that allows users to walk around and interact with world features randomly generated based on their input
- Controlled and customized StdDraw API and presented a novel solution for room connection using HashMap, Kruskal's algorithm, and binary space partitioning

**Fairness in Housing Appraisal | Python**

- Deployed a data analysis pipeline on Chicago Cook County housing assessment data by performing EDA, feature engineering, linear regression and data visualization using Pandas, SQL, Scikit Learn and Seaborn
- Uncovered the systematically unfair housing appraisal system in Cook County and analyzed its political and societal impact

## SKILLS, ACTIVITIES & INTERESTS

**Languages and Frameworks:** Python, Java, HTML/CSS, JavaScript, SQL, Scheme; React Native, React.js, Pandas, Scikit Learn, Seaborn, Figma, Adobe Illustrator, Adobe Photoshop, Adobe Premier

**Interests:** Singing, watch shows, Kpop, and I dance competitively (mainly open style, sometimes Chinese dance)