

# Sarah He

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## EDUCATION

**University of California, San Diego**  
*Bachelor of Science in Data Science*

Expected Graduation: June 2026  
*Provost Honors, GPA: 3.89/4.00*

## EXPERIENCE

### Data Science Intern

August 2024 - Present

*A Round Entertainment*

*Jersey City, NJ*

- Scraped and parsed HTML data using the BeautifulSoup library to build a robust dataset from online sources, enabling in-depth analysis of concert industry trends
- Developed an interactive Tableau dashboard that allowed non-technical stakeholders to explore data by artist and time period, effectively visualizing key metrics and trends
- Trained and optimized predictive models (Linear Regression, Random Forest, XGBoost) to estimate concert revenue, providing valuable insights into factors affecting revenue generation

### Data Visualization Staff, Photographer

October 2023 - Present

*The UCSD Guardian*

*La Jolla, CA*

- Collected and interpreted datasets to produce informative and interactive graphics
- Cover diverse content to produce photographs that complemented and enriched articles

### Human Resources Intern

August 2024 - October 2024

*A Round Entertainment*

*Jersey City, NJ*

- Automated attendance tracking by processing employee attendance logs in Excel, streamlining analysis of performance trends to support data-driven decision-making
- Facilitated effective communication between employees and management

### Webmaster

January 2024 - November 2024

*The UCSD Guardian*

*La Jolla, CA*

- Regularly updated The Guardian website with fresh content to promote online reach and audience engagement
- Contributed to redesign efforts for The Guardian website, enhancing user experience and modernizing site functionality

## PROJECTS

### EcoMenu | *Python, Node.js, Tableau, HTML, CSS, JavaScript*

August 2024

- Sourced, compiled, and cleaned datasets on the carbon footprint of over 350 food ingredients and 2100 recipes
- Developed web application enabling users to select ingredients and receive low-carbon recipe recommendations
- Presented visualizations to showcase insights from the recipe and ingredient data
- Boost Hacks II: Most Creative Hack, CirFin CREATE: Civic Achievement Award

### San Diego Crime Analysis | *Python, Tableau*

July 2024

- Analyzed 4 years of crime data in San Diego, identifying trends and correlations for effective data presentation
- Built interactive dashboard with Tableau to visualize statistics and trends of various crime types

### Starry Sticker Shop Analysis | *Python, Tableau*

July 2024

- Analyzed sales patterns and customer sentiment for actionable insights for business growth
- Visualized shop performance from 4 years of small business data using both Python and Tableau

### Dino Diet | *Python, HTML, CSS, Flask, JavaScript*

April 2024

- Implemented XGBoost classifier on dinosaur diets with 93% accuracy
- Built Flask application that allows users to select dinosaur features and view corresponding diet predictions
- Developed frontend web page design with data visualizations to showcase statistics

## LEADERSHIP

### **Starry Sticker Shop**

June 2020 – September 2023

*Co-Founder*

*Temple City, CA*

- Grew Etsy business to 270+ global orders by leveraging social media marketing
- Managed all aspects of product design, customer service, and financial planning

### **Temple City Infinity Math Circle**

March 2020 – August 2023

*Co-Founder, Head of Planning Committee, Instructor*

*Temple City, CA*

- Oversee summer program offering 200+ elementary and middle school students weekly math lessons
- Lead weekly committee meetings to develop class materials for 24 areas of study

## SKILL SET

**Technical:** Python, Java, SQL, Tableau, R, HTML/CSS, JavaScript, Excel, LaTeX, Git, Jupyter Notebook, Figma, Flask

**Production:** Adobe Lightroom, Adobe Photoshop, CapCut, PowerPoint