

# Kimberley Wu

San Francisco, CA



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## Education

### Visualization M.S.

Texas A&M

June 2027

College Station, TX

### Computer Science B.A.

University of California, Santa Cruz

June 2025

Santa Cruz, CA

- **Relevant Coursework:** Web Applications, Data Structures & Algorithms, Machine Learning, Computer Graphics, Technical Writing
- **Honors and Leadership:** Dean's Honors, Slug Gaming (President, Vice President, Historian), Game Design and Art Collaboration Club (Webmaster), Film Production Coalition (Writer)

## Experience

### Web Design Teaching Assistant

Mission Bit

May – July 2025

San Francisco, CA

- Assisted in-person instruction 3 days a week for Intro to Web Design, helping students learn HTML, CSS, JavaScript, and Figma prototyping.
- Built an inclusive classroom culture and supported student collaboration and project completion for end-of-semester capstone.
- Met weekly with instructional staff to track progress, adjust pacing, and communicate updates to families and program team.

### Computer Graphics Course Grader/Tutor

Baskin Engineering, UC Santa Cruz

January – June 2025

Santa Cruz, CA

- Led weekly office hours and lab sessions, guiding students with debugging and **resolving 5+ support tickets per week**.
- Delivered detailed **feedback on 100+ student projects**, reinforcing core 3D math and computer graphics programming concepts.
- Collaborated with course instructor and tutors to refine WebGL, Three.js, and Blender labs and assignments.

### Undergraduate Researcher

INSPECT, GUI Lab at UC Santa Cruz

September 2024 – March 2025

Santa Cruz, CA

- Developed interactive sequence graph networks to **visualize 100000+ nodes of player activity data** in MMORPGs.
- Collaborated with the project author to customize graphs/charts and optimize data processing with Plotly and Dash Bootstrap Components for large data sets.
- Participated in biweekly code reviews to enhance code efficiency, readability, and documentation.

## Projects

### The Bananaboat Cookbook | React, Node.js, Express, MongoDB, Py4Web

- Contributed to a **full-stack application** where users can create, browse, and share custom recipes and ingredients.
- Implemented **secure account creation and login systems** with personalized content controls.
- Implemented **secure recipe ownership controls** for edit/delete functionality on both frontend and backend.

### Play Time! | JavaScript, HTML/CSS, WebGL

- Engineered an interactive WebGL-based computer graphics application from scratch.
- Optimized rendering performance by implementing UV mapping and leveraging local storage.
- Developed a content filtering system to block inappropriate words.

## Skills

**Media & Design:** Blender, Figma, Unity, Adobe Premiere Pro (familiar)

**Web Design:** Full Stack Prototyping, Responsive Design, Accessibility, Rapid Iteration

**Languages:** JavaScript, Python, HTML/CSS, SQL

**Frameworks & Libraries:** React, Vue.js, Node.js, WebGL, Three.js, Dash, Plotly

**Other Tools:** GitHub, LaTeX, Docker, PowerPoint