Christy Yu

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EDUCATION

Carnegie Mellon University   Aug. 2025 – Aug. 2026
M.S. Human Computer Interaction   *Pittsburgh, PA*
UC Santa Barbara   3.75 GPA | Aug. 2021 – Jun. 2025
B.S. Computer Science, B.S. Statistics & Data Science   *Santa Barbara, CA*

EXPERIENCE

Software Engineer Intern   Jun. 2024 – Aug. 2024
Lorentz Solution   *Santa Clara, CA*
- Migrated all 44 dynamic libraries from compiler RHEL6 to RHEL78 for PeakView chip-simulation **(Bash scripting)**
- Reduced **10%** in backup storage and production release package by automating library clean-up process
- Executed regression unit tests on circuit simulation cases; analyzed, debugged and troubleshot on the updated libraries for upcoming release of PeakView software

Research Fellowship   Jan. 2023 – Present
Human Wildlife Conflict emLab   *Santa Barbara, CA*
- Build and tune **habit suitability machine learning models** with bioclimatic variables and land cover data to explore how climate change drives human-elephant conflict in Namibia in **R**

Salesforce Developer Intern   Oct. 2023 – Mar. 2024
UCSB IT Department   *Santa Barbara, CA*
- Maintained and implemented Curriculum Planning System web-application **(Javascript)**
- Built petition forms section with **Salesforce Flows** in Student Success Hub framework

Design and Marketing Lead Organizer   Aug. 2023 – June. 2025
SBHacks Hackathon   *Santa Barbara, CA*
- Orchestrated a 48-hour hackathon, bringing together 200+ students from 20+ universities to address environmental sustainability, health, and accessibility through coding projects
- Draw assets, design UI layout, and designed branding system for hackathon page to maintain visual theme across websites and social media **(Figma, Photoshop)**

Coding Team Research Assistant   Sept. 2022 – Jun. 2023
Louis Lab Sensory Systems Behavior   *Santa Barbara, CA*
- Implemented Direct Linear Transformation(DLT) method in **Python OpenCV script** to turn 3D real-world coordinates to 2D pixels on dual raspberry pi arduino camera **(Computer Vision)**
- Implemented virtual light-dispersement plume model in **Python** script to study behavior of Drosophila fly larvae

Data Visualization Director   Jun. 2021 – Jun. 2023
The Daily Nexus Newspaper (Data Team)   *Santa Barbara, CA*
- Produced NLP unsupervised topic classification data visualizations with **NLTK** on Taylor Swift lyrics in article
- Coded interactive web-interface to map students' geographical background in analysis article **(D3 Javascript)**
- Hosted workshops, wrote guideline documents, answered questions and advised 100+ members during biweekly check-up meetings on making professional data visualizations for publication

PROJECTS

Refract | Anti-deepfake Identity Protection App, Data Science Club Project Team   Jan. 2024 - May. 2024
- Designed and developed frontend mobile app **(Tailwind/Javascript/CSS, Figma)**, that disrupt deepfake model training against identity theft from images, poster winning 2nd in annual showcase
- Cloaked images disrupts deepfake models by **70%** with no visual difference to the human eye

Newsletter Curator App | UIUX Project Manager & Designer, SB Creative Lab   Apr. 2024 - Jun. 2024
- Conducted **UX research** by surveying and interviewing individuals to identify pain points, consolidated results in user personas, analyzed competing brands
- Manage project timeline and resources, delegated tasks weekly, and composed case study

Noteblockit | Multi-Instrument MP3 to Midi Converter, Data Science Club Project Team   Mar. 2023 - Apr. 2023
- Created MP3 to MIDI converter that can preserve multiple instrumental melodies, overcoming the limitation that most Midi converters flatten to a single melody with **RNN** modeling

Other projects on GitHub