

# Hilary Lui

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## EDUCATION

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### San Francisco State University

Aug. 2023 – Dec. 2025

*Bachelor of Science in Computer Science*

## SKILLS MATRIX

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**Languages:** C++, C, Java, JavaScript, HTML/CSS, Python

**Tools:** Git, GitHub, VMware, Chrome DevTools, Figma, ChatGPT

**Concepts:** Web Development, UX Design, System Programming, Debugging, Bash, Scrum, Generative AI

## EXPERIENCE

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### REDLab

Aug. 2025 – Dec. 2025

*Student Research Assistant*

San Francisco, CA

- Conducted human–computer interaction (HCI) research on AI-supported learning in virtual reality.
- Led a pilot study comparing AI conversational agents vs. VR-only instruction for beginner Hindi learning.
- Designed experimental conditions, materials, and data collection procedures for a controlled user study.
- Presented research findings at an academic conference at the University of Hawai‘i.

### Flow Immersive

Jun. 2025 – Sep. 2025

*Intern*

Remote & Sunnyvale, CA

- Created personal data stories (“flows”) using Python scripts, generative AI, and custom datasets.
- Conducted research to design data-driven narratives in Flow’s 3D visualization platform.
- Collaborated with interns on discussions about generative AI and its industry-wide impact.
- Tested immersive experiences on devices such as Meta Quest VR headsets, XREAL AR glasses, and Apple Vision Pro.

### Marugame Udon

Feb. 2022 – Aug. 2025

*Shift Lead & Trainer*

San Ramon & San Francisco, CA

- Supervised shift operations, managed inventory, assigned roles, and ensured smooth workflow.
- Trained new hires on all stations and provided continuous coaching to improve efficiency and consistency.
- Oversaw food production, conducted quality checks, and maintained high safety and service standards.
- Delivered excellent customer service, guided guests, and resolved complaints professionally.

## PROJECTS

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### ThriftAtSFSU

Jan. 2025 - May 2025

*Python, HTML, CSS*

<https://github.com/Hluiu/ThriftAtSFSU>

- Led a 5-member development team for ThriftAtSFSU, coordinating milestones, sprint planning, meetings, and task delegation as project lead.
- Built a full-stack web marketplace using Flask, Jinja2, and MySQL, implementing robust CRUD functionality for products, users, and reviews.
- Implemented advanced product filtering, responsive UI components, secure user authentication, and an interactive wishlist with asynchronous updates.
- Deployed the application with environment-based configuration, secure secrets management, and scalable database connection pooling.

### Simple File System

Aug. 2024 - Dec. 2024

*C, VMware*

- Built an extens-based file system in C (VMware) with full support for file/directory creation, deletion, and naming.
- Implemented file transfer functionality to copy files between Linux and the custom operating system.
- Utilized Git and GitHub best practices, including branching and committing, to maintain version control and streamline collaboration.