

# Stephanie Yu

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## EDUCATION

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### University of California, Irvine (UCI)

*B.S. Computer Science; B.S. Applied and Computational Mathematics*

Irvine, CA

*Expected 2028*

**Relevant Coursework:** I&C SCI 31/32/33/6B/6D, MATH 9/13/2B/2D/2E/3A

## EXPERIENCE

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### AI Safety Club Research Assistant

Sep 2025 – Present

*University of California, Irvine*

*Irvine, CA*

- Synthesized research papers on AI safety topics including alignment, robustness, evaluation, and governance into concise written briefings for team discussions
- Compared proposed methods, identified limitations and failure cases, and contributed ideas for follow-up experiments

### Academic Tutor (ICS 32 & MATH 1B)

Sep. 2025 – Mar. 2026

*University of California, Irvine*

*Irvine, CA*

- Led weekly tutoring sessions for ICS 32 and Math 1B, helping students debug Python programs and understand core calculus concepts
- Broke down assignments into clear problem-solving steps, reinforced common patterns, and guided students through frequent logic and implementation mistakes

## PROJECTS

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### Direct Messaging Chat App | *Python, Tkinter, TCP Sockets, JSON*

Feb 2026

- Built a desktop messaging client on top of UCI's Distributed Social Platform (DSP) to send direct messages and retrieve unread or prior conversations
- Designed a reusable messaging module with clean APIs for sending and fetching messages, returning structured objects for UI integration
- Developed a Tkinter interface with a contacts panel, conversation view, message composer, and timed auto-refresh using the event loop
- Added local message and contact persistence so prior conversations could be restored immediately on startup

### Local-First Journal with Network Publishing | *Python, OOP, JSON, TCP Sockets*

Feb 2026

- Developed a local-first journaling application with persistent profile and post storage using JSON serialization
- Implemented profile management and post operations including create, delete, list, and formatted state inspection
- Built a TCP socket client that connected to the DSP server to publish posts and update user profile data through a JSON-based protocol
- Organized the system into modular components for protocol handling, networking, storage, and command processing with defensive error handling

### File System Inspector & Explorer CLI | *Python, pathlib, recursion*

Feb 2026

- Built a command-line file system explorer that traversed directories and filtered results by file name, extension, and file-only views
- Implemented recursive traversal with deterministic output ordering for consistent behavior and easier testing
- Used pathlib for cross-platform path handling and added robust validation for invalid commands and paths

## TECHNICAL SKILLS

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**Languages:** Python, Java, C++, SQL, JavaScript

**Tools:** Git, GitHub, VS Code, Jupyter Notebook

**Concepts:** Object-oriented programming, data structures, recursion, iterators/generators, networking, JSON serialization, event-driven GUIs, debugging, testing, file I/O