

Kaitlyn Ng

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Education

Carnegie Mellon University

May 2026

B.S. in Electrical-Computer Engineering and Human-Computer Interaction

Pittsburgh, PA

GPA: 3.77 (Dean's List)

Relevant Coursework: Interaction Design for HCI, Designing Human-Centered Software, Product Design Fundamentals, Computer Graphics, Computer Systems, AI Representation and Problem Solving, Social Psychology, Electronic Devices and Analog Circuits

Experience

CMU HCII AXLE Lab

Feb 2024 – Present

HCI Researcher

Pittsburgh, PA

- Submitted paper as second author to CHI 2025 detailing the “OSCAR” (Object Status Context Awareness for Recipes) system and its real-world feasibility in collaboration with Prof. Patrick Carrington and PhD Franklin Li.
- Executed large-scale object status feasibility testing by processing 170+ recipes/1,350+ recipe cooking images using CLIP, sigLIP, and GPT-4 vision models in Python.
- Developed frontend and backend for OSCAR web application using React.js and Python Flask featuring responsive recipe video scrollbar and GPT-4o chat-box allowing users to ask recipe-based questions.

Personalized Learning Squared (PLUS)

Dec 2023 – Present

Product Design Intern

Pittsburgh, PA

- Updated 7+ core PLUS products to new PLUS design system: implemented local variables/screen size responsiveness and published 15+ new components in main DS in Figma.
- Transitioned external tutor scheduling Google spreadsheet to native app schedule, starting from user research and user personas to wireframing, prototyping, and developer handoff.
- Spearheaded UI/UX Facelift utilizing the GitHub Primer design system for CMU LearnLab's DataShop@CMU: an online learning science dataset resource for researchers.

CMU HCII Augmented Perception Lab

Jun – Aug 2023

UX Researcher

Pittsburgh, PA

- Collaborated with Prof. David Lindlbauer and PhD student Hyunsung Cho on MineXR: an open-source dataset specifying how people integrate and orient personalized “widgets” in augmented reality within everyday spaces, published to CHI 2024.
- Conducted and designed 20+ 2-hour user studies to generate MineXR's 600+ widget dataset, focusing on widget placement and reason for placement.

Leadership

CMU User Experience Association

May 2024 – Present

VP of Content

Pittsburgh, PA

- Directed a team of 5 in publishing weekly UX articles and interviews for UXAs “Interaction Nerds” newsletter, increasing views by 1200+ and subscribers by 150+.

CMU Dept. of Electrical and Computer Engineering

May 2024 – Present

Introduction to Computer Systems TA

Pittsburgh, PA

- Led and organized two 5-student weekly small groups honing in course concepts.
- Facilitated 5-8 hours of weekly office hours and 1-on-1 appointments, helping students understand and debug lower-level C programming labs.

CMU alpha Kappa Delta Phi

May 2024 – Present

Design Chair and Webmaster

Pittsburgh, PA

- Sustained aKDPi's core values and mission by elevating and updating CMU aKDPi's official website and designing digital flyers for CMU aKDPi's social media.

Skills

Languages

Python
C/C++
HTML/CSS
React/JS

Technologies

Figma
Spotify Web API
OpenAI API
Adobe Creative Suite
Flask

Methods

Wireframing
Prototyping
Developer Handoff
User Interviews
Usability Testing
Design Systems