

Victoria Prokopenko

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EDUCATION

Pomona College Claremont, CA

Bachelor of Computer Science and Cognitive Science

Expected Graduation Date: May 2028

GPA: 4.0/4

Awards/Honors: Annexstad Scholar, Scholar Designation Award (Fall 2024, Spring 2025), AP Scholar w/ Distinction

Relevant Coursework: Data Structures, Functional Programming, Statistical Programming in R, Intro to Computer Science

TECHNICAL SKILLS

Programming Languages: Python, Java, R, Haskell

Software: Visual Studio, PyCharm, R Studio, GitHub

Languages: Russian (Fluent), Spanish (Proficient)

WORK AND RELEVANT EXPERIENCE

Pomona College Computer Science Department

Claremont, CA

Research Assistant, Human Computer Interaction Lab

August 2025 – Present

- Designed and iterated on **interactive prototypes** (web/mobile/XR) and contributed to **a research report and conference presentation** in collaboration with faculty and undergraduate researchers.
- Conducted **literature reviews of 30+ HCI papers** and supported **3+ user studies with 35+ participants**, including usability testing and task-based evaluations.

Teaching Assistant, Introduction to Computer Science

August 2025 – Present

- Teaching Assistant for a **60+ student** Intro to Computer Science course covering algorithms, computer systems, recursion, machine learning, and ethics in computing, with programming in Python .
- Supported student learning by leading labs, debugging code, and grading **100+** assignments, reinforcing both theoretical foundations and applied programming concepts.

Coding with Kids

Seattle, Washington

K-12 Coding Instructor

May 2025 – August 2025

- Instructed coding and game development to **60+** students ages 5–12 in summer camps using **Scratch, Python, Java, and Lua** on platforms like Minecraft Education, Roblox Studio, CodeKingdoms, guiding the creation of over **230** games and digital projects.
- **Co-led a training curriculum overhaul** for an incoming cohort of **100+** instructors by scripting, recording, and editing 10 onboarding videos, streamlining orientation and improving instructional consistency across programs.

Quantitative Skills Center

Claremont, CA

Office Assistant

August 2024 – May 2025

- Facilitated **over 100 tutoring sessions** by coordinating schedules, pairing **50+** students with suitable tutors or study groups, and ensuring seamless session execution.
- Streamlined administrative processes, booking errors 12% via data organization and real-time tutor availability tracking.

PROJECTS

Embodied Musical Development in XR with Apple Vision Pro (Swift, SwiftUI, Unity, RealityKit/ARKit.)

- Collaborated to design and prototype **an XR application** for the **Apple Vision Pro** using **Swift, Unity, and ARKit**, to serve as an embodied, creative exploration tool for the live coding/ algorithmic rave music scenes.
- Conducted **pilot studies with users**, applying **user-centered design, usability testing, and feedback synthesis** to refine interaction design, enabling the physical manipulation of musical elements in XR environments.
- Synthesized insights from **40+ HCI and XR research papers** into design principles for embodied XR applications in a **5-person research team** producing **weekly documentation and a formal proposal** for future XR research.

AIassistant, an AI-Powered Study Assistant Tool (Python, Streamlit, Hugging Face, PyPDF2)

- Built and deployed an AI-powered study assistant in **Python/Streamlit** that extracts text from PDFs, summarizes content with Hugging Face models, and **auto-generates 5–10 flashcards** per document.
- Processed PDF's up to **50+ pages** with **<10 sec/page** summaries and a Streamlit Cloud interface for instant access.
- Currently extending functionality to export generated flashcards to Anki format, streamlining study workflows and reducing manual note creation by an estimated **60–70%**.

LEADERSHIP, PROFESSIONAL DEVELOPMENT, AND EXTRACURRICULARS

• Management Leadership for Tomorrow (MLT) Career Prep Fellow

• Computer Science Department Liaison

• ColorStack Chapter Member

• First Generation Low-Income Student Mentor

• Russian Hall Mentor, Oldenborg Center for Modern Languages and International Relations