

# Chloe Ho

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## EDUCATION

**Barnard College, Columbia University** | *New York, N.Y.*

*Bachelor of Arts in Computer Science*

**May 2024**

GPA 3.8/4.0

Relevant Coursework: Artificial Intelligence (A), Applied Machine Learning(A), Database Systems SQL(A), UI Design, Advanced Programming, Data Structures and Algorithms, Computational Linear Algebra, Discrete Math (A), Calculus III, Fundamentals of Computer Systems (A), Introduction to Computer Science/Programming Java

## PROFESSIONAL EXPERIENCE

**Sentry.io** | San Francisco, C.A. | *Software Engineering Intern*

**June 2023 – Sep 2023**

- Detected 700+ broken integrations and alerted users by planning and implementing Redis database in Python
- Eliminated Slack API rate-limit errors for channel alerts and presented refactored code at company all-hands
- Developed Funnel Analyzer to discover issues impacting user conversion by revealing issue conversion rates
- Mentored high school students' projects for a company-hosted all-girl Hack Club hackathon with 70 students

**JPMorgan Chase & Co.** | New York, N.Y. | *Winner of Code for Good Hackathon*

**Sep 2022**

- Created a scalable multiplayer online learning platform for non-profit after-school virtual enrichment program

**NASA L'Space Mission Concept Academy** | Remote | *Deputy Project Manager*

**Aug 2021 – Dec 2021**

- Managed team of 13 to create a preliminary design review for a mission concept to characterize Mars ice sites

## RESEARCH EXPERIENCE

**Barnard Accessible & Accelerated Robotics Lab** | New York, N.Y. | *Student Researcher* **May 2022 – Present**

- Authored "Underrepresentation of Women in Robotics Research" accepted by IEEE RA Magazine (RAM)
- Collected data on 20+ robotics conferences by developing web scrapper with BeautifulSoup and Selenium
- Discovered gender distribution of 10,000+ authors by performing quantitative statistical analysis in Excel
- Gained insights from the larger robotics community by creating survey that reached 150+ robotics researchers
- Presented research during poster session with 300+ attendees to an audience of varying technical backgrounds

**Columbia Computer Enabled Abilities Lab** | New York, N.Y. | *Research Assistant*

**Jan 2022 – July 2022**

- Contributed to developing a mobile React Js Web App designed for visually impaired people navigation tool
- Annotated training data for computer vision system to conduct machine learning using SVM classifier

## TEACHING EXPERIENCE

**Columbia CS** | New York, NY | *Advanced Programming Teaching Assistant*

**Sep 2022 – Dec 2023**

- Lead recitations and office hours and graded assignments on programming in C, CLI, pointers, Vim, memory management, File I/O, sockets API, Unix, Make, Bash, TCP/IP, HTTP, 3-tier architecture and debugging
- Authored guide for 400+ students on using Git, creating a .gitignore and globbing, published to class website

**Robogals University of Melbourne** | Melbourne, VIC | *Workshop Leader*

**March 2023 – May 2023**

- Introduced 120+ students to programming by leading Python and Lego EV3 workshops at primary schools

**Columbia Emerging Scholars Program** | New York, N.Y. | *Workshop Assistant*

**Sep 2021 – Dec 2022**

- Co-taught 75-minute workshop using Peer-led team learning model to better meet minority students' needs
- Mentored and encouraged 30+ students to pursue computer science beyond the introductory level
- Collaborated with Ph.D. students on curriculum planning to promote active participation and discussion