

# Sedona Thomas (she/her/hers)

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## PROFESSIONAL SUMMARY

Passionate and hard-working computer science and human rights student. Experience spans across a wide variety of technical and non-technical field, primarily focusing on privacy, accessibility, fairness, clean object-oriented design, and ethical technologies.

## EDUCATION

**Columbia University in the City of New York, Fu Foundation School of Engineering and Applied Science**, New York, NY  
B.S. in Computer Science (Applications Track) – GPA: 3.7912 ([Diploma](#)) Aug 2018 – May 2022  
**Columbia University in the City of New York, Columbia College**, New York, NY  
B.A. in Human Rights (Honors Thesis Track, Women and Gender Studies specialization) Aug 2018 – May 2023

## WORK EXPERIENCE

**Columbia University, Fu Foundation School of Engineering and Applied Science: Teaching Assistant** Aug 2022 – Present  
Assist faculty for COMS 3410: *Computers and Society*, hand out assignments, grade homework and papers, hold weekly office hours  
**Inspirit AI: Main Course Instructor and Substitute Instructor** Jun 2021 – Present  
Teach Artificial Intelligence and Machine Learning concepts to high-school students, oversee student projects, moderate panels and workshops  
**Amazon Prime Video: Software Development Engineering Intern** May 2022 – Aug 2022  
Completed an independent project implementing a new promotional content page in Prime Video. Worked mainly in Kotlin with large codebases

## LEADERSHIP EXPERIENCE/VOLUNTEERING

**Computers and Society [Student Volunteer](#)** May 2022 – Present  
Volunteer to help research topics for the website, compile resources, and write a variety of topics for the first Computers and Society Wikipedia page  
**Columbia Makerspace Volunteer Superuser** Apr 2022 – Present  
Volunteer to help maintain equipment, train students to use a variety of tools, and hold workshops in the [Columbia Makerspace](#)  
**Columbia University Volunteer Student Mentor** Aug 2020 – May 2022  
Advised computer science undergraduates through the Engineering Student Council, Society of Women Engineers, and QuestBridge Network  
**NSOP Responsible Community @ Columbia, Live Well | Learn Well, and R.O.A.R. @ Columbia Facilitator** Mar 2019 – Aug 2021  
Facilitated panels of first-year students, taught about drug and alcohol use and stress culture/resources at Columbia  
**Columbia Health Peer Ambassador** Aug 2019 – Jan 2020  
Educated Columbia students about available resources on campus, served as a liaison between the student body and Columbia Health

## PROJECTS

**Digital Synthesizer (with external control box)** ([Code](#), [Control Box](#)) (JavaScript, HTML, Web Audio, ESP32) Sep 2021 – Mar 2022  
Digital synthesizer with modes for additive synthesis, AM/FM synthesis, and low frequency oscillation with a hand-made hardware control box  
**Program Compiler Automation Tool** (C++, Makefile) May 2021 – Jun 2021  
Makefile alternative with cache to maintain current project status, compiles specified programs and creates phony target commands  
**Natural Language Processing Image Captioning** (Python) May 2021 – Jun 2021  
A conditioned recursive neural network generator to caption images using a greedy image decoder and beam search, trained on the flickr8k dataset

## ORGANIZATIONS

**Volunteer Contributor** – All Tech Is Human: AI & Human Rights 2022 Report Working Group ([Organization](#)) Mar 2022 – Present  
**Member** – Order of Omega: Omicron Chapter (Greek Honor Society) ([Organization](#)) Apr 2022 – Present  
**Member** – Gamma Phi Beta: Iota Chapter ([Gamma Phi Beta Homepage](#)) Sep 2021 – Present  
**Member** – Columbia Women in Computer Science ([WiCS Homepage](#)) Dec 2019 – Present  
**Member** – Columbia Society of Women Engineers ([SWE Homepage](#)) Aug 2018 – Present  
**Member** – Columbia iQ (LGBTQ+ STEM Organization) ([Facebook Page](#)) Aug 2018 – Present  
**Member** – Columbia QuestBridge Scholars ([Facebook Page](#)) Aug 2018 – Present

## AWARDS/CERTIFICATIONS

**Out for Undergrad Alumnus (Engineering 2022-2023 and Tech 2022 Conference Alumnus)** Aug 2021 – Present  
**Columbia University SEAS-CC 4-1 Program** Aug 2018 – May 2023  
**Columbia University Dean's List** May 2021  
**[The Beesen Global Experience Research Fellowship](#)** May 2019  
**[Nevada Governor's Volunteer Recognition Award](#)** Apr 2017  
**[Columbia University Codepath Cybersecurity Course Certification](#)** Apr 2021

## SKILLS

**Computer Science:** Natural Language Processing (NLP), Artificial Intelligence (AI), Machine Learning (ML), Databases, Computer Audio, Security, User Interfaces, Programming Languages and Translators, Compilers, Computational Audio, Accessible Technology  
**Software:** Google Cloud Platform (GCP), Web Audio, Figma, Balsamiq, Burp Suite, Ubuntu, Kali Linux, Raspbian, WordPress  
**Hardware:** Raspberry Pi, Esp32, Arduino, PlatformIO, SolidWorks  
**Fluent:** Python, Java, C, C++, Kotlin, JavaScript, HTML5/CSS, Shell Scripting, SQL, PostgreSQL, Makefile, Git, Bash, Zshell, Flask, LaTeX  
**Proficient:** MIPS Assembly Language, PowerShell, MATLAB, HTTP Protocols  
**Math:** Number Theory, Cryptography, Discrete Math, Relational Algebra, Multivariable Calculus, Statistics, Linear Algebra  
**Languages:** English (native proficiency), French (limited working proficiency), Spanish (elementary proficiency)