**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](https://www.parchment.com/u/award/d499a0ea47bf893031aeca4592f71d14)) 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***](https://computers-society.org/student-volunteers/)*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](https://make.columbia.edu/)

***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](https://github.com/sedona-thomas/Digital-Synthesizer), [Control Box](https://github.com/sedona-thomas/Digital-Music-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](https://atih.responsibletechguide.com/programsoverview)) *Mar 2022 – Present*

**Member** – Order of Omega: Omicron Chapter (Greek Honor Society) ([Organization](https://orderofomega.org/)) *Apr 2022 – Present*

**Member** – Gamma Phi Beta: Iota Chapter ([Gamma Phi Beta Homepage](https://www.gammaphibetacolumbia.com/)) *Sep 2021 – Present*

**Member** – Columbia Women in Computer Science ([WiCS Homepage](https://cuwics.github.io/)) *Dec 2019 – Present*

**Member** – Columbia Society of Women Engineers ([SWE Homepage](http://www.seas.columbia.edu/swe/)) *Aug 2018 – Present*

**Member** – Columbia iQ (LGBTQ+ STEM Organization) ([Facebook Page](https://www.facebook.com/columbiaiq/)) *Aug 2018 – Present*

**Member** – Columbia QuestBridge Scholars ([Facebook Page](https://www.facebook.com/ColumbiaQuest/)) *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***](https://www.college.columbia.edu/news/columbia-college-offers-new-global-fellowships) May 2019

# [***Nevada Governor’s Volunteer Recognition Award***](http://www.columbia.edu/~snt2127/certifications/Sedona_Thomas_Nevada_Governor_Volunteer_Service_Award.jpg) Apr 2017

[***Columbia University Codepath Cybersecurity Course Certification***](http://www.columbia.edu/~snt2127/certifications/Codepath_Cybersecurity_Certification.pdf) Apr 2021

**SKILLSs**

**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)