

# 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: 3.7570 Aug 2018 – May 2022  
**Columbia University in the City of New York, Columbia College**, New York, NY  
B.A. in Human Rights (specialization in Women and Gender Studies) Aug 2018 – May 2023

## 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++, 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)

## WORK EXPERIENCE

**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: Software Development Engineering Intern** May 2022 – Aug 2022  
Collaborate to design cross-disciplinary technologies and bring new products to market

## LEADERSHIP EXPERIENCE

**Columbia University Peer Mentor** Aug 2020 – Present  
*Engineering Student Council:* Advised five computer science undergraduates, provided assistance accessing Columbia University resources  
*Society of Women Engineers Mentorship Family:* Led and advised five undergraduate women in the computer science mentorship family  
*QuestBridge:* Advised a first-gen/low-income undergraduate, provided assistance accessing Columbia University resources and financial aid  
**NSOP R.O.A.R. @ Columbia Facilitator** Mar 2020 – 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  
**NSOP Responsible Community @ Columbia and Live Well | Learn Well Facilitator** Mar 2019 – Aug 2019  
Led three discussions with twenty first-year students, taught about drug and alcohol use and stress culture/resources at Columbia

## 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  
**Web Server** ([Code](#)) (C, Makefile, HTML5/CSS) Aug 2020 – Dec 2020  
A web server with a subset of HTTP 1.0 functionality, implementing GET requests for static pages and a database search system

## EXTRACURRICULAR ACTIVITIES

All Tech Is Human: AI & Human Rights Working Group Member ([Organization](#)) Mar 2022 – Present  
Gamma Phi Beta: Iota Chapter ([Gamma Phi Beta Homepage](#)) Sep 2021 – Present  
Columbia Women in Computer Science: General Body Member ([WiCS Homepage](#)) Dec 2019 – Present  
Columbia Society of Women Engineers: General Body Member ([SWE Homepage](#)) Aug 2018 – Present  
Columbia iQ: General Body Member (LGBTQ+ STEM Organization) ([Facebook Page](#)) Aug 2018 – Present  
Columbia QuestBridge Scholars ([Facebook Page](#)) Aug 2018 – Present  
Goju Karate Club ([Club Homepage](#)) Aug 2018 – Jan 2020

## AWARDS/CERTIFICATIONS

**Order of Omega: Greek Honor Society** Apr 2022 – 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