

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: AI/ML Course 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 ([Code](#)) (JavaScript, HTML5/CSS, Web Audio)

Sep 2021 – Dec 2021

Digital synthesizer with modes for additive synthesis, amplitude modulation synthesis, frequency modulation synthesis, and low frequency oscillation

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 from Scratch ([Code](#)) (C, Makefile, HTML5/CSS)

Aug 2020 – Dec 2020

Web server with a subset of HTTP 1.0 functionality, implementing GET requests for static pages and a database search system

EXTRACURRICULAR ACTIVITIES

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/ACCOMPLISHMENTS

Columbia University SEAS-CC 4-1 Program

Aug 2018 – May 2023

Columbia University Dean's List

May 2021

Columbia University Codepath Cybersecurity Course Certification

Apr 2021

Learned about web security and cryptography ([syllabus](#)) (IDOR, CSRF, XSS, SQLI, RCE, Kali Linux, Honeybots, etc.)

The Beesen Global Experience Research Fellowship

May 2019

The President's Volunteer Service Award

Mar 2018

