Sophia Tamburrino

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Washington, DC and Philadelphia, PA

EDUCATION

The George Washington University, Washington DC

Bachelor of Science in Computer Science
Current GPA: 3.85, Dean's List
Expected Graduation: May 2027

Soudeton Area High School, Souderton PA

GPA: 4.5 weighted, National Honor Society
Graduated: June 2023

AWARDS

A. James Clark Engineering Scholarship, NCWIT Award for Aspirations in Computing Greater Philadelphia Affiliate 'Rising Star' 2023, GW Presidential Academic Scholarship, Souderton Student Spotlight Award for Tech Ed

SKILLS

- Java, JavaScript, C, Python, HTML, CSS, Markdown, MySQL and SQL
- Amazon Web Services (AWS) - EC2 and RDS
- VSCode, Vim, Anaconda, IntelliJ IDEA
- LoggerPro, Excel, and Sheets
- Bootstrap
- JSON
- Natural Language Processing
- AI and Machine Learning
- Programming design team work
- SDLC methodologies
- Time management and scheduling
- Full-stack development

PROFESSIONAL EXPERIENCE

George Washington University Information Technology, Washington DC — Jan 2024 - Present
Technical Support Assistant I

- Providing end-to-end technical support for hardware and software issues.
- Utilizing Amazon Connect, Azure, Box, Confluence, ARS, and One Identity for efficient support delivery.
- Managing tickets through Smart IT, prioritizing tasks based on business impact.
- Supporting information security initiatives to safeguard company assets.
- Contributing to IT projects and providing training to end-users.
- Ensuring adherence to IT policies and procedures.

Starbucks Coffee Company, Kulpsville PA — Aug 2021 - July 2023
Barista

- Trained 5 employees following a 30 hour schedule.
- Memorized 255+ menu items and navigated the POS system.
- Maintained the fastest drive-thru speeds in the Montgomery County district.
- Learned cleaning strategies and health safety protocols.
- Built and maintained relationships with coworkers across 5 different company stores.

PROJECTS

Undergraduate Research on AI Banter Detection in Conversations, Washington DC — Aug 2024 - Present

Working as a Research Assistant developing AI that can detect banter in social media conversations and literature. Using Python, Pandas, NumPy, Seaborn, and BERT-based deep learning libraries for data analysis and experimentation. Collaborating within a team, attending weekly meetings, and dedicating 5-10 hours per week to the project. Preparing a research paper for submission to a social sciences journal.

Natural Language Processing (NLP) Project for CSCI 1111, Washington DC — Nov 2023 - Dec 2023

Processed a dataset of over 200k lines of tweets relating to the COVID-19 pandemic. Used multiple Java.util libraries including Hashmap, Date, FileReader, etc. Tested an independent hypothesis that if we use Stanford CoreNLP libraries to determine a positive or negative sentiment of a tweet, the sentiment of tweets relating to facemasks will be mainly negative. This hypothesis tested true with an 81% negative sentiment for tweets relating to facemasks.

Computer Programming III Independent Study, Souderton PA — Aug 2022 - June 2023

Independently designed, wrote, and coded an interactive web-based video game titled "American Trial" where the user plays as a detective whilst raising awareness on racial injustice in American court systems. This project was designed using Amazon Web Services (AWS) using 6 programming languages.

VOLUNTEER WORK

TechGirlz by CompTIA Spark, Philadelphia PA (Virtual) — Aug 2021 - July 2023
Ambassador and Teen Advisory Board Member

TechGirlz is a nonprofit organization that teaches middle school girls how to code and encourages them to become future STEM leaders. The Teen Advisory Board creates workshops and networks with women from outside organizations to accomplish career goals.

ACTIVITIES

Women in Computer Science (WiCS) — Aug 2023 - Present
Secretary (Sophomore Year)
Freshman Representative (Freshman Year)

Planning social and networking events and preparing members to go to the Grace Hopper Celebration (GHC) every year. In charge of the social media account and graphic design. Writing weekly newsletters and the organization's main point of contact. Dedicating 3+ hours per week.

Theta Tau Co-ed Professional Engineering Fraternity — Aug 2023 - Present
Vice Regent

Practicing service, professional development, and brotherhood through executing chapter activities, including community service projects, social events, and professional seminars. Organized the Theta Tau national conference hosting over 100 guests across 8 schools. In charge of Committee Chairs and event planning. Dedicating 5+ hours per week.

GW Rocket Team — Aug 2023 - May 2024
Payload Sub-team Member

Competing in the Spaceport America Cup, a part of the computer science sub-team specializing in data collection using raspberry pi's. Designed a ground station using Python to display collected data. Dedicated 3+ hours per week.