

Sophia Wang

720-767-8018 • sophiawang1206@gmail.com • github.com/sophiaawang • [linkedin.com/in/sophia-wang--/](https://www.linkedin.com/in/sophia-wang--/)
[wangsophia.com](https://www.wangsophia.com)

Education

Cornell University, College of Engineering

Bachelor of Science in Computer Science

Ithaca, NY

Expected May 2026

GPA: 3.80/4.0 | Dean's List, Course Consultant for Functional Programming (OCaml)

Related Courses: Analysis of Algorithms, OOP & Data Structures, Functional Programming, Machine Learning, Data Science, Computer System Org., Systems Programming, Computer Networks, Computer Vision, Design & Progr. for the Web, Intro to iOS, Intro to Backend, Probability Models & Inference

Experience

Software Engineering Intern

May 2024-August 2024

Google

Mountain View, CA

- Enhanced an internal tool that ingests third party geospatial data to keep Google Maps up to date by building a system in Java to visualize the data quality and acceptance rates for millions of database edits
- Utilized parallel pipelines to query & aggregate data and a scheduled BorgCron job for large-scale data processing
- Worked with xFN for this critical P0 feature for a UI visualization revamp to help operators better debug issues

Imaging Systems Subteam Lead

October 2022-Present

Cornell University Unmanned Air Systems

Ithaca, NY

- Leading a subteam of engineers responsible for the acquisition and management of images from a VTOL plane
- Spearheading a system to save images & tagging data to an AWS database with Spring and displaying with React
- Developed REST APIs to send camera settings/commands from a React.js page to a Spring Boot backend to increase the efficiency of a ground server system by 200%

Faculty Relations Co-Director, Technical Committee Member

January 2024-Present

Women in Computing @ Cornell (WICC)

Ithaca, NY

- Organizing Lunch Bunch to build community and facilitate conversation between professors and 30+ students
- Improving the user experience for hundreds of WICC members by helping refresh the website using React

Student Training in Engineering Program (STEP) Intern

May 2023-August 2023

Google

San Francisco, CA

- Created an automated system using Java gRPC and Protocol Buffers to send deletion, deactivation, and reactivation emails with users' transit pass data to 500+ users/month in cities like San Francisco, Chicago, and DC
- Led the design process with an in-depth design doc and a design review with senior Google engineers
- Conducted JUnit testing and led bug bashes with mobile test devices alongside detailed test/launch documents
- Collaborated with cross-functional teams (UX, PM, legal, marketing) for successful user launch

Computer Science Summer Institute (CSSI)

July 2022-August 2022

Google

Remote

- Participated in a 4-week intensive summer program with a project-based HTML/CSS and JS curriculum taught by Google engineers and delivered a collaborative final project presentation with a live demo to Google employees
- Built a live Monkeypox case tracker site with a partner that fetches data from an API and displays worldwide case numbers for 80+ countries, an interactive map, bar/pie charts, and general Monkeypox information

Projects

Spoken Digits Classifier | ECE 2720 | Python, NumPy, Matplotlib, Pandas, scikit-learn, Scipy.io

December 2023

- Trained an SVM classifier on and used Fourier transform to de-noise 40k WAV files, each with Gaussian white noise or high-frequency noise randomly added, that recognizes the two digits spoken in each file

UnOCaml | CS 3110 | OCaml

December 2023

- Created a terminal-based simulator with a team for the card game UNO that supports multiplayer gameplay with human or AI opponents utilizing agile software practices with test-driven development, feature sprints, and git

Technical Skills

- Programming Languages:** Java, Python, C, C++, Javascript, Typescript, SQL, OCaml, Kotlin, Swift, CSS
- Frameworks/Libraries:** Spring, Prisma, React, Redux, Flask, SQLAlchemy, NumPy, Matplotlib, JUnit, gRPC
- Developer Tools:** Git, Docker, VS Code, IntelliJ, Google Cloud, AWS, Cloud Spanner, Bazel