Sophia Yau

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EDUCATION

The City University of New York, Queens College   **December 2025**
Bachelor of Arts in Computer Science
Relevant Coursework: Data Structures and Algorithms, Object-Oriented Programming in C++ & Java, Web Design
Leadership & Organization: Rewriting the Code, Code For All, Color Stack, Girls Who Code, ALPFA QC

SKILLS

Programming Languages: Python, JavaScript, SQL, Java
Tools and Frameworks: AWS, Git, Jenkins, Docker, React.js, HTML, CSS, MySQL, Tailwind, Hoppscotch, Microsoft Office Suite

EXPERIENCE

Capital One   **New York, NY**
Software Engineer Intern   *May 2025 - Aug 2025*

- **Designed** a scalable, event-driven data synchronization architecture using **AWS Lambda, AppSync, Eventbridge, Docker, etc.**
- Implemented infrastructure using **AWS CDK (TypeScript)** and developed data processing scripts in Python**.**
- Automated data ingestion for millions of loans from upstream sources and synchronized updates to an analyst facing UI.
- Wrote **unit tests** to ensure code reliability and coverage, and leveraged **Jenkins** pipelines to automate builds and test execution.

CUNY Tech Prep   **New York, NY**
Data Science Fellow   *Aug 2024 - May 2025*

- **Led** the development of a **computer vision (CV)** application with a **cross-functional team** using **agile methodologies**.
- **Acquired expertise** in data collection & processing, statistical modeling, data visualization, and big data.

Google   **New York, NY**
Software Engineering Fellow   *Sep 2024 - Dec 2024*

- **Selected** as **1** of **80** participants from over **350+ applicants** for an intensive technical mentoring program.
- **Enhanced** technical problem-solving, data structures, and algorithms in **Python** through weekly 1:1 sessions with a Google SWE.

Anote   **New York, NY**
Software Engineer Intern   *Jun 2024 - Aug 2024*

- Achieved **97% accuracy** in matching businesses with relevant grant opportunities, securing **$50,000+** in funding.
- **Automated** applications for government-issued grants using **Python**, reducing processing time by **75%.**

Tech Incubator at Queens College   **New York, NY**
Technical Project Management Intern   *Jun 2023 - Aug 2023*

- **Led cross-functional teams** to plan and execute technical projects using project management tools like **Jira**, ensuring timely delivery and adherence to project goals and timelines.

CUNY Queens College   **New York, NY**
Computer Science Tutor   *Jan 2023 - May 2023*

- Tutored **5+ students** through 1:1 sessions on key areas in Computer Science, tailoring specific lesson plans and materials that aligned with student goals, contributing to a **20% increase** in average student performance.

PROJECTS

Focus Point | [GitHub](https://github.com)

- **Developed** a distraction detection app in **Python** with **OpenCV** to analyze real-time webcam footage and improve attention span.
- Implemented **eye gaze detection** and **head pose estimation** models to identify user distraction, achieving a **95% accuracy rate**.
- Created a **React** interface to display real-time distraction/focus status, a timer, and live camera footage.

RefuConnect - *HopHacks Bloomberg Track Winner* | [GitHub](https://github.com)

- **Developed** a multilingual and auto-translating communication platform using MongoDB, Express.js, React.js, and Node.js.

LEADERSHIP & PROFESSIONAL DEVELOPMENT

Code For All QC   **New York, NY**
Secretary & Event Manager   Jan 2024 - Current

- **Recruited industry professionals** from tech companies as guest speakers for events with turnouts of **75+ students**, leveraging strong networking abilities to establish meaningful connections with potential speakers.