

Lily Sam

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EDUCATION

Columbia University in the City of New York

Computer Science

New York, NY

Anticipated May 2023

Relevant Coursework: Intro to Java, Intro to Python, Data Structures and Algorithms in Java, Discrete Mathematics, Advanced Programming in C, Fundamentals of Computer Systems

HONORS

- John W. Kluge Scholarship – awarded to top 5% of Class of 2023 (March 2019 – Present)
- Dean's List (Fall 2020 and Spring 2021)
- Emerging Scholars Program (January 2021 – April 2021)

LEADERSHIP EXPERIENCE AND ACTIVITIES

Columbia Admissions | *Global Recruitment Committee (GRC)*

November 2019 - Present

- Interviewing and mentoring prospective international students from Africa region.
- Organizing events, webinars and virtual or in-person tours for prospective international applicants.

Correlation One | *Data Science Fellow*

March 2021 – September 2021

- Manipulated and analyzed data using Pandas, SQL and Tableau to predict business and productivity trends.
- Created and built logical data models to improve the energy-generation sector in Texas for the next 10 years.
- Obtained honors recognition for proficiency in data analytics and strong data engineering and problem-solving skills.

Emerging Scholars Program (ESP) | *Scholar*

January 2021 – April 2021

- Worked in teams to analyze and generate design and algorithmic solutions for products and problems.
- Discussed real-world applications and potential social consequences of Computer Science and its fields.

VOLUNTEER/WORK EXPERIENCE

Columbia University Center for Student Advising | *Tutor*

September 2021 – Present

- Assisting students with mastering their course content and maximizing their potential for academic achievement.
- Holding online sections for students to help them better understand data structures in Python and Java.

Sponsors of Educational Opportunity | *Tech Developer Intern*

June 2021 – August 2021

- Implementing various development, testing and automation tools to build product infrastructure.
- Building a database from an API and designing a program to obtain database information for users.
- Testing, deploying and maintaining program to improve user satisfaction and app usage rate.

Developers In Vogue | *Teaching Assistant*

July 2018 – August 2021

- Tutoring and providing online coding guidance in Python and Java to selected Ghanaian college women in tech.
- Participated in Figma X GitHub Hackathon and collaborated in a team to create new designs and develop a library app.

Columbia University Housing | *Operations Assistant*

December 2019 – June 2021

- Brainstormed with directors of operations to deliver exceptional customer service to undergraduate students and guests.
- Built framework for project analysis using Asana and Google suite to improve collection, cleaning and analysis of data on Columbia's portfolio of 38 undergraduate buildings.
- Trained and accessed new team of student workers to develop immediate plan of action during COVID-19 crisis.

PROJECTS

BooksHub

July 2021

- Interfaced with New York Times API and OpenLibrary API to build a book recommendation web app in Python.
- Used Flask, HTML, CSS and JavaScript to build an interactive web app and used SQLite to maintain user's database.

Stock Price Data Feed

May 2021

- Interfaced with stock price data feed to set up system for trading using JPMorgan Chase frameworks and tools.
- System was also built with Python, HTML, CSS, JavaScript and TypeScript.

Memory Game

March 2021

- Used HTML, CSS and JavaScript to build a Memory Game with game buttons that light up and play a sound when clicked.

CODING SKILLS

- **Software:** Python (Proficient), Java (Proficient), SQL (Intermediate), Git, HTML/CSS (familiar), JavaScript (beginner)