

# Lily Sam

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## EDUCATION

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**Columbia University in the City of New York**

**New York, NY**

*Computer Science*

**Anticipated May 2023**

**Relevant Coursework:** Intro to Java, Intro to Python for Engineers, Data Structures and Algorithms, Discrete Mathematics, Advanced Programming, Computational Linear Algebra, Databases, User Interface Design, Advanced Software Engineering

## HONORS

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- John W. Kluge Scholarship – awarded to top 5% of Class of 2023 (March 2019 - Present)
- Dean's List (Fall 2020 and Spring 2021)
- Code2040 Finalist (2021)

## LEADERSHIP EXPERIENCE AND ACTIVITIES

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**Columbia Undergraduate Admissions | *Global Recruitment Committee (GRC)*** **November 2019 - Present**

- Reaching out to prospective international applicants and recent admits through postcard writing, emails, and telephone communication.
- Organizing events, webinars and virtual or in-person tours for prospective international applicants.
- Interviewing prospective international applicants to Columbia's Undergraduate Schools and submitting reports.

**Twitter | *DevelopHER 2022***

**April 2022 - May 2022**

- 1 of 30 students selected out of 1200+ applicants to participate in a two-day interactive program for CS majors.
- Won the #ReadySetCode challenge - a team coding contest by solving maximum number of coding questions.

**Code2040 | *Finalist***

**September 2021 - January 2022**

- Chosen from a pool of over 1000 applicants to participate in the early career accelerator.
- Obtained interview prep training and career training to be a racial advocate and eliminate structural barriers which prevent Black and Latinx technologists from being leaders in innovative industries.

**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.

## WORK EXPERIENCE

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**Columbia University | *COMS 4111 Teaching Assistant***

**September 2022 - Present**

- Supports instructions for 450+ students in a graduate-level database course by tutoring, developing and grading exams and assignments.
- Holding weekly office hour sessions in a hybrid modality, to assist students with understanding course concepts.

**Columbia Undergraduate Admissions | *Student Interviewing Program Coordinator***

**September 2022 - Present**

- Staffing GRC members for Columbia Undergraduate Admissions initiatives (including general body meetings).
- Training students for student interviewing program and monitoring interview assignment distribution and follow-up.

**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 private tutoring sessions for students to help them better understand data structures in Python and Java.

**Amazon Inc. | *Software Development Engineer Intern (Full Stack)***

**June 2022 - August 2022**

- Developed payments service API to allow business enterprises and customers access health insurance contract info.
- Built Frontend portal with React and Typescript using Amazon's Harmony framework and AWS React library Polaris.
- Tested, deployed and maintained payments web service using AWS to improve user satisfaction and app usage rate.

**Sponsors of Educational Opportunity (SEO) | *Tech Developer Intern***

**June 2021 - August 2021**

- Implemented various development, testing and automation tools to build product infrastructure.
- Built a database from an API using MySQL and developed a web app using Python and Flask.

## CODING SKILLS

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- **Software and Frameworks:** Python, Java, HTML, CSS, JavaScript, React, React-Native, Flask, Spring
- **Devops:** AWS, Docker **Databases:** MySQL, MongoDB, Neo4j
- **Misc:** JIRA, Git, Maven, Agile