

Andrea Lopez

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[LinkedIn](#) | [Github](#) | [Personal Website](#)

EDUCATION

Barnard College, Columbia University | New York, NY | *B.A. Computer Science* Expected May 2025

Relevant Coursework: Advanced Programming, Applied Machine Learning, Artificial Intelligence, Databases, Fundamentals of Computer Systems, Computer Science Theory, Natural Language Processing, UI Design, Linear Algebra & Probability, Data Structures in Java, Discrete Math, Calc-based Statistics, Accounting & Finance, CodePath: Web Dev
GPA: 3.93

TECHNICAL SKILLS

Languages: Java, Python, C, SQL, HTML/CSS, JavaScript, TypeScript, R, Bash

Software/OS: React, Pandas, NumPy, Sklearn, Matplotlib, Seaborn, JQuery, Flask, SciPy, Unix, Linux, Git, Grafana, Figma

WORK EXPERIENCE

Palantir | New York, NY | *Software Engineering Intern* May 2024–Present

- Frontend engineer on observability software as part of the infrastructure team.

Columbia University Computer Science | New York, NY | *Teaching Assistant* January–May 2024

- Held office hours, supported students, and graded assignments for Fundamentals of Computer Systems class.

Oracle | Seattle, WA | *Data Science Intern* May–August 2023

- Analyzed mass amounts of user-generated data to inform strategic design choices.
- Learned about data cleaning and preprocessing, exploratory data analysis, data visualization, and UX research.

Break Through Tech AI @ Cornell Tech | Remote; New York, NY | *Fellow* June 2023–May 2024

- Attended 8-week ML foundations course, learned industry-relevant tools, algorithms, and data analysis techniques.
- Developed a misinformation detection model on a team at the United Nations International Computing Center.

Natural Language Processing Research | New York, NY | *Undergraduate Researcher* May–August 2022

- Analyzed acoustic-prosodic and lexical features of empathetic vs. neutral human speech to develop an empathy detection and generation model at Columbia University.
- Enhanced data collection efficiency by creating Python automation scripts. Gained exposure to AI and ML.

LEADERSHIP

HeadStart | Remote | *Mentor* January–May 2024

- Mentored a college freshman studying computer science. Supported mentee in her career goals at weekly meetings.

Columbia Women in Computer Science | New York, NY | *DivHacks Organizing Team Member* June–August 2023

- Coordinated room bookings and catering arrangements and conducted event reviews with administration.

Polling Initiative | New York, NY | *Director* July 2021–May 2023

- Released three polls asking about students' opinions on politics and current events and created reports with statistical analysis and data visualizations using Python, Pandas, NumPy, SciPy, and Matplotlib.
- Onboarded a group of students with no coding experience. Taught, led meetings, and collaborated on code.

PROJECTS

Connect Puerto Rico | New York, NY | *DivHacks Winning Participant* September 2022

- Website focused on disaster relief in Puerto Rico where people can share information and request or provide assistance.
- Won for best beginner project and best project using Wix at Columbia's annual diversity hackathon, DivHacks.
- Skills: HTML, CSS, Javascript, Wix.

Event Planning Website

- Website where Columbia and Barnard student organizations can easily plan events on campus.
- Skills: Database management & design, frontend & backend development, UI/UX, Python, Flask, SQL, HTML, CSS.