Andrea Lopez

New York, NY

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

EDUCATION

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

Relevant Coursework: Advanced Programming in C on Unix, Intro to Databases, Linear Algebra & Probability, Applied Machine Learning, Data Structures in Java, Discrete Math, Statistical Inference, Fundamentals of Computer Systems, Calc-based Intro to Statistics, Calc III, Accounting & Finance, Data Science & Health Equity in R, CodePath: Web Dev

GPA: 3.85

TECHNICAL SKILLS

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

Software/OS: Pandas, NumPy, Scikit-learn, SciPy, Matplotlib, Seaborn, Flask, Unix, Linux, Git, Figma, Praat

WORK EXPERIENCE

Oracle | Seattle, WA | *Data Science Intern* May 2023–Present
- Analyze 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–Present
- Attended 8-week ML foundations course, learning industry-relevant tools, algorithms, and data analysis techniques.
- Develop 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.

Barnard College Information Technology | New York, NY |*Academic Computing Expert* January 2022–January 2023
- Provided software, network, and printer support for students.

Probus Test Systems | Lincroft, NJ | *Data Analysis Intern* April–June 2021
- Implemented and tested several crypto automated trading algorithms in Python and compared their performance.

LEADERSHIP

Columbia Women in Computer Science | New York, NY | *DivHacks Organizing Team Member* June 2023–Present
- Coordinate room bookings and catering arrangements, conduct event reviews with administration, and ensure that participants receive timely updates.

Polling Initiative | New York, NY | *Director* July 2021–May 2023
- Lead the Polling Initiative of Columbia Political Union, Columbia's multipartisan political organization. Since Fall 2021, we have released three polls asking about students' opinions on politics and current events.
- Created reports with statistical analysis and data visualizations using Python, Pandas, NumPy, SciPy, and Matplotlib.
- Onboard a group of students with no coding experience. Teach, lead meetings, and collaborate 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.