Andrea Lopez

[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: 3.87

TECHNICAL SKILLS

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

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

WORK EXPERIENCE

Columbia University Computer Science | New York, NY | *Teaching Assistant* — January 2024–Present
- Hold office hours, support students, and grade assignments for Fundamentals of Computer Systems class.

Palantir | New York, NY | *Software Engineering Intern* — May–August 2024
- Incoming software engineering intern working on their CI/CD software platform, Apollo.

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–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.

LEADERSHIP

HeadStart | Remote | *Mentor* — September 2024–Present
- Mentor a college freshman studying computer science. Support 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, conducted event reviews with administration, and ensured that participants receive timely updates.

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.