# 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, Operating Systems, Fundamentals of Computer Systems, Computer Science Theory, Natural Language Processing, UI Design, Linear Algebra & Probability, Accounting & Finance, CodePath: Web Development
GPA: 3.93

## TECHNICAL SKILLS

Languages: Typescript, Java, Python, C, R, Bash, SQL (MySQL, Postgres), HTML/CSS, JavaScript
Frameworks, Libraries, & ML: TailwindCSS, React, NextJS, Flask, Pandas, NumPy, Sklearn, Seaborn, SciPy, Matplotlib
Tools: Git, Grafana, Unix, Linux

## WORK EXPERIENCE

**Palantir** | New York, NY | *Software Engineering Intern* — May–August 2024
- Designed and implemented a new observability solution, integrated in the daily workflow of most engineers at Palantir.
- Led frontend development to enhance usability, becoming the team's expert on a key library central to building and maintaining Palantir's observability platform.

**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.
- Gained experience in 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.

**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 | *Columbia DivHacks Winning Participant* — September 2022
- Website focused on disaster relief in Puerto Rico. Won for best beginner project and best project using Wix.
- 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.