

Andrea Lopez

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

EDUCATION

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

Relevant Coursework: Advanced Programming in C, Applied Machine Learning, Applied Deep Learning, Artificial Intelligence, Databases, Operating Systems, Computer Systems, Computer Science Theory, Natural Language Processing, UI Design, Linear Algebra & Probability, Accounting & Finance, CodePath: Web Development
GPA: 3.91

TECHNICAL SKILLS

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

WORK EXPERIENCE

Palantir | New York, NY | *Software Engineer* September 2025–Present

- Drove critical logic improvements to core alerting systems and coordinated across teams to ensure usable, correct, and reliable monitoring amid architectural migration.

Palantir | New York, NY | *Software Engineer 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.

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.

Columbia Speech Lab | New York, NY | *Undergraduate Researcher* May–August 2022

- Analyzed features of empathetic vs. neutral human speech to develop an empathy detection and generation model.

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.