Sophia Lopez

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EDUCATION

Columbia University   Aug. 2019 – May 2023
Bachelor of Science in Computer Science   *New York, NY*
- **Relevant Coursework**: Machine Learning, Distributed Systems, Software Engineering, Algorithms
- **GPA**: 3.89/4.00
- **Activities**: Columbia Women in Tech (President), HackColumbia Organizer, ACM Student Chapter

EXPERIENCE

Software Engineering Intern   Jun. 2022 – Aug. 2022
Meta   *New York, NY*
- Developed and optimized front-end components for Facebook Marketplace, improving load times by **30%**.
- Collaborated with cross-functional teams to design and implement new features, driving **15% user engagement increase**.
- Wrote unit and integration tests to ensure code quality and maintainability, increasing test coverage by **20%**.
- Participated in agile ceremonies, including sprint planning and retrospectives.

Research Assistant   Jan. 2022 – May 2022
Columbia AI Lab   *New York, NY*
- Conducted research on natural language processing techniques for sentiment analysis on social media data.
- Implemented and evaluated machine learning models, achieving **87% accuracy** on a benchmark dataset.
- Published findings in the **Journal of Artificial Intelligence Research**.
- Presented research at the Columbia Undergraduate Research Symposium.

PROJECTS

FitTrack: Personalized Fitness Tracker   *React Native, Node.js, MongoDB*
Mar. 2023 – Apr. 2023
- Developed a mobile app to track fitness goals and provide personalized workout recommendations.
- Integrated MongoDB for storing user data and progress, supporting **5,000+ users**.
- Implemented a RESTful API using Node.js for data synchronization across devices.
- Received **4.8/5 user ratings** during beta testing for its intuitive design and functionality.

AI Resume Evaluator   *Python, Flask, TensorFlow*
Jan. 2023 – Feb. 2023
- Built a web-based tool to analyze and evaluate resumes using natural language processing.
- Trained machine learning models on **50,000+ labeled resumes**, achieving **92% accuracy**.
- Developed a Flask-based web interface for real-time analysis and feedback.
- Deployed the tool on Google Cloud Platform, handling **1,000+ user submissions daily**.

Campus Map Navigator   *JavaScript, Leaflet.js, Firebase*
Oct. 2022 – Dec. 2022
- Created an interactive map application for Columbia University's campus navigation.
- Integrated Firebase for real-time updates on events and locations.
- Implemented geolocation features to help users find the shortest path to destinations.
- Presented the project at the Columbia Demo Day, earning **Best Student Innovation Award**.

TECHNICAL SKILLS

Languages: Python, JavaScript, SQL, Java, C++

Frameworks: React, Flask, TensorFlow, Node.js

Tools: MongoDB, Firebase, Docker, Git

Technologies: Machine Learning, Web Development, Mobile Development, Cloud Computing