

RICHARD LOPEZ

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EDUCATION

Choate Rosemary Hall - Wallingford, CT

Graduated 05/2018

Columbia University, Columbia College - New York, NY

Expected Graduation 05/2022

Bachelor of Arts in Computer Science & Ethnicity and Race Studies

Relevant Courses:

- Advanced Programming (Systems Programming in C)
- Artificial Intelligence
- Computer Networks
- Data Structures and Algorithms in Java
- Linear Algebra
- User Interface Design

Programming Languages:

- Java (fluent)
- Python (fluent)
- JavaScript (fluent)
- C (proficient)
- Git (proficient)
- Html/CSS (proficient)

Projects

N-Puzzle Solver

- Utilizing an OOP approach, the n-puzzle solver uses one of 3 different search techniques to solve the n-puzzle. The algorithms are breadth first search, depth first search, and A* search. All are implemented in python.

First Generation, Low-Income Resources Website

- Developing a website that allows Columbia University students that identify as a first-generation and/or low-income to find and access resources at Columbia that are not easily navigable. The aim of the website is to consolidate the resources for FLI students and create a community around the FLI identity.

EXPERIENCE

Cereal — Columbia Build Lab

May 2021-Present

Full Stack Developer — Morningside Heights, NY

- Cereal is a web-based application designed to aid users in making decisions by aggregating, analyzing, and ranking data such as Airbnb listings.
- Developed a backend API that scrapes data from HTML and sends data in packaged JSON. Technologies used include Flask, SQLAlchemy, JavaScript, HTML/CSS, and chrome API.
- Developed a chrome extension to aid in importing data from websites utilizing chrome API and manifest V3.

Private Wealth Management Intern

July-August 2019

Morgan Stanley — Los Angeles, CA

- Interned for Zager Fixed Income Management, overseeing \$10.2 Billion in assets under management
- Assisted with daily operations including performing market research, gathering information for and analyzing client portfolios, and assisted with organizing materials for client meetings
- Gathered and visualized data using Excel to analyze overall market trends for the quarterly newspaper

LEADERSHIP, MENTORSHIP, ACTIVITIES

Multicultural Affairs Board Member

Sept 2019- Present

First Generation College Student, Low Income Advisor

- Serve as an advocate for students who identify as being first in their family to attend college and are low-income (FLI student) to address the issues present at Columbia that impact the success of FLI students
- Work alongside Deans, the Financial Aid Office, and other administrative officials to design and implement strategies that can improve the experience of FLI students while being at Columbia

Columbia Mentorship Initiative

Sept 2020- Present

Mentor

- Serve as a mentor to a first-year undergraduate student, helping to navigate the challenges of being a first-generation college student at Columbia
- Communicate and work in collaboration with other mentors to provide the most meaningful advice to our mentees, guiding them through the resources available at Columbia and through important dates like class registration

HONORS, AWARDS, SCHOLARSHIP

- School SEAL Prize for Outstanding Contribution to Choate Rosemary Hall 2018
- Choate Rosemary Hall Icahn Scholar, Partnership Program Scholar (Alumnus), Young Eisner Scholar, HSF Scholar
- 3-time marathon finisher, 2ND place in age group at the Brooklyn Go Hard or Go Home Half Marathon