

Camilo Becerra

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EDUCATION

Brown University, B.Sc. Applied Mathematics-Computer Science Providence, United States | **Expected Graduation May 2027**

- 4.0/4.0 GPA
- Relevant Coursework: *Fundamentals of Computer Systems, Linear Algebra, Multivariable Calculus.*

WORK EXPERIENCE

National Student Leadership Conference, Team & Assistant Team Advisor Johns Hopkins University, USA | June 2024 – July 2024

- Led lectures, labs, and workshops in deep learning, regression and classification algorithms, data analysis, data presentation, data cleaning, and other topics in AI and data science to groups of up to 30+ students at a time.
- Mentored students in the development of projects in AI and data science, namely developing machine learning models or analyzing large datasets to extract insights.
- Led leadership activities for groups of 10+ students.
- Staffed 4 summer sessions, receiving over 800 students throughout the whole summer, with around 150 students in my specific programs.

Universidad de Los Andes, Biomedical Engineering Research Assistant Bogota, Colombia | June 2022 – July 2022

- Participated in a research project that developed a machine learning model that could detect both tissue type and cancer presence from RNA transcriptomic data with 94.1% balanced accuracy, trained with TCGA and GTEx databases, for a combined total of around 27,000 RNA samples.
- Aided in the writing process of the paper “CanDLE: Illuminating Biases in Transcriptomic Pan-Cancer Diagnosis,” which outlined the research process, by collecting data from the state-of-the-art and producing key graphics.

Innovacol, Python Bootcamp Instructor Bogota, Colombia | April 2021 – June 2021

- Designed a free Python bootcamp in a group of 3 members through weekly meetings and independent work. Developed a curriculum, lecture slides, and homework.
- Taught the one month-long bootcamp in lectures twice a week for 18 signed-up students across Latin America.

LEADERSHIP EXPERIENCE

Colombian Student Association @ Brown University, Executive Board Member Providence, RI | January 2024 – Present

- Organize cultural, social, and academic activities, workshops, and trips centered around Colombian pride and culture open to all the university's students.

Colegio Los Nogales, House Captain Bogotá, Colombia | June 2022 – June 2023

- Elected as one of six house captains in my graduating class by a board composed of the school principal, the previous house captains, and other executives and teachers in the school.
- Organized merchandise sales to raise 3 million Colombian pesos to fund programs for school's low-income students.
- Organized and directed 15+ sports, artistic, cultural, and academic events ranging from 10 to over 1000 participants.
- Improved the rigor of the house captain interview and election process.

PROJECTS

Restaurant Recommendation Algorithm, Python, Pandas, Scikit-Learn, Matplotlib June 2024

- Created a word embedding-based recommendation algorithm for restaurants using Word2Vec.
- Cleaned, processed, and manipulated Yelp dataset to create vectors for each restaurant based on various features.
- Designed algorithm to recommend restaurants closest to a recent and overall taste profile for a user, based on their previously seen and liked restaurants.

File Input/Output Cache, C March 2024

- Created a file I/O cache for reading and writing to files by storing them partially in memory, rather than just in the disk.
- Able to outperform the standard library file I/O cache on certain tests, running at 0.05x its runtime.
- On average, performed at 2.3x the standard library file I/O cache speeds when testing.

2048, Pyret October 2023

- Developed the game 2048 in the functional programming language Pyret with 2 other classmates.
- Implemented the game's full functionality with a variable size visual board.
- Wrote unit tests for all functions created to ensure functionality and correct output in various edge cases.

Fake News Detector, Python, TensorFlow, NLTK February 2021

- Developed a Machine Learning model to detect fake news from text with around 85% accuracy.

SKILLS

Technical Skills: C/C++, Java, Python, HTML/CSS, SQL, Linux, Git, Microsoft Office

Languages: Spanish (Native), French (Intermediate – B1), Japanese (Beginner)

Hobbies/Interests: Playing the saxophone and guitar, cooking, sports.