Paola Lacouture Cárdenas
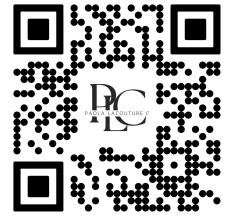
Ann Arbor, Michigan

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Education

University of Michigan - College of Engineering   **Ann Arbor, Michigan**

Bachelor of Science in Computer Science and Engineering   Aug. 2021- May 2025

- Course Highlights: Programming and Intro Data Structures, Introduction to Engineering: Musical Signal Processing, Discrete Mathematics, Web Design, Development, and Accessibility
- Skills: C++, Matlab, Julia, HTML, CSS, Excel, Microsoft Office, Canva, Figma
- GPA: 3.8/4.0 | Fall 2021 & Winter 2022 Dean's Honor List

Academic Projects & Relevant Experience

Machine Learning Project (EECS 280)   **Ann Arbor, Michigan**

Programmer   Jan. 2022 - April 2022

- Developed a program (C++) that uses natural language processing and machine learning techniques to classify posts by topic
- The program analyzed the words used in each post in relation to each other and compared them to sample posts to determine which topic label it should assign to the new posts

Guitar Tablature Project (ENGR 100: Musical Signal Processing)   **Ann Arbor, Michigan**

Project Team Member   Jan. 2022 - April 2022

- Designed an accessible and user-friendly UI that gave users the option to record a sound or upload guitar tablature
- Created a transcriber (Julia) that takes in a recording and outputs the guitar tablature
- Programmed a synthesizer that converts frequencies and note durations (read in from the tablature) into sinusoidal functions that can be played

Reach Consulting Club   **Ann Arbor, Michigan**

UX Consultant and Project Liaison   Jan. 2022 - present

- Conducted user research to learn more about the targeted audience and provided our clients with an overview of the needs of their audience
- Designed a prototype (Figma) for our client's mobile app that had a minimalistic design that captured the company's essence while fulfilling UX/UI principles

Dr. Alberto Lacouture Esthetic & Cosmetology Center   **Barranquilla, Colombia**

Social Media Manager and Liaison   Jul. 2018 - present

- Created content for various social media platforms, increasing digital presence in multiple countries, reaching 8K followers (IG) and 20K (TikTok)
- Provided excellent customer service by responding to customers' inquiries, scheduling appointments, and engaging with them through social media

Leadership Experience

Society of Hispanic Professional Engineers (SHPE)   **Ann Arbor, Michigan**

LeaderSHPE Director   Jul. 2022 - present

- Planned weekly meetings (talks, activities, workshops, etc) to empower LeaderSHPE scholars and help them further develop their leadership skills

SHPE'd Abroad   April 2022 - May 2022

- Participated in a mentorship program where we exposed High School students from underserved communities to STEM
- Worked on a robot car project with a group of 6 students allowing them to gain hands-on experience while learning about programming, embedded systems, and Arduino

Key Club   **Barranquilla, Colombia**

Webmaster (2019-2020), Treasurer (2020-2021)   Aug. 2018 - May 2021

- Organized a spreadsheet to keep track of all the costs and donations from our fundraising events
- Created a website where people could easily donate money and learn about our campaign
- Partnered with our city's mayor and raised about COP 25 M to make 1,000 face shields to donate to our local health centers and help feed about 350 families