Ana Isabel Lopez Murillo

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EDUCATION

University of North Carolina – Chapel Hill   **August 2021 – May 2025**
Bachelor of Science, Computer Science   *GPA 3.8*
Minors, Astronomy, Physics

- **Relevant Coursework**: Data Structures and Algorithms. Calculus I-III. Linear Algebra. Modern Web Development. Differential Equations. Software Engineering. Systems Fundamentals. Files and Databases.
- **Honors**: Chancellors Science Scholar. Honors Carolina Scholar. CSS Distinguished Scholar Award 2023, 2024. Dean's List Fall 2021 - Spring 2024. Renwick Scholar Academic Award 2022, 2023.

Technical Skills: Java, Python, C, C#, Javascript, TypeScript, AngularJS, RxJS, HTML/CSS, Bootstrap, Git, REST APIs, Docker, HTTP Protocol, SQL, R, NumPy, Pandas, MatPlotLib, Microsoft Suite, Mathematica, WinUI, Windows App SDK.

PROFESSIONAL EXPERIENCE

Wells Fargo   **Charlotte, NC**
FC-Ops Intern Analyst   *June 2024 – August 2024*

- Proposed and developed a native Windows application to accelerate ILQC review process by over 10% using WinUI, .NET, and Windows App SDK Frameworks.
- Coordinated independent documentation system rehaul proposal to optimize process and cost reduction.
- Reviewed over 100 customer data profiles for fraud prevention and to accurately capture onboarded customers.

UNC Department of Physics and Astronomy   **Chapel Hill, NC**
Undergraduate Research Assistant   *January 2023 – Present*

- Applying algorithmic statistics and Python packages to optimize transit data analysis, uncover transit timing variations (TTVs) of over 60 exoplanets through statistical modeling and Gaussian Process machine learning.
- Utilizing Pandas and Numpy data analysis tools for efficient data manipulation and presentation, enabling clear communication of findings on scientific research papers and team.

PROJECTS AND OUTSIDE EXPERIENCE

iGEM at UNC   **Chapel Hill, NC**
Wiki Lead   *January 2023 – Present*

- Leading small team of 3 software engineers in ground-up development of yearly Team Wiki using HTML/CSS, JavaScript, and Bootstrap over tight 4-month timeframe serving pool of 1,000+ visitors.
- Designing and creating 20+ website assets and graphics to ensure a cohesive and appealing user experience.

Pearl Hacks   **Chapel Hill, NC**
Director of Design   *April 2023 – Present*

- Responsible for design of all yearly graphics and promotional materials, including artwork, advertisements, website vector graphics, and brochures, leading to 350+ hackathon participant turnouts.
- Designed graphics for primary marketing website and sponsorship team, serving over 2,000+ monthly users and 10+ sponsors for the 2024 hackathon.

Computer Science Experience Labs   **Chapel Hill, NC**
Software Engineer Intern   *August 2023 – December 2023*

- Developed a full-stack friendship management system addition to the CSXL web app alongside a small team of 4 software developers using an Angular frontend, FastAPI routing, MySQL database structure, and Python algorithmic backend.
- Spearheaded front-end graphic design development, backend algorithms, and API routing in Agile-based workflow sprints within a tight 30-day timeframe to receive exceptional feedback from stakeholders.