

# Rene Alzina

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## EDUCATION

**University of Notre Dame** | Notre Dame, IN May 2027  
*Bachelor of Science in Engineering* GPA: 4.0  
Major: Computer Science | Minor: Engineering Corporate Practice (Business Management)

**Rome Summer** | University of Notre Dame Global, Rome, Italy May 2024 – June 2024

## TECHNICAL AND LANGUAGE SKILLS

**Technical:** JavaScript, HTML, CSS, Python, Pandas, React, C/C++, bash.  
**Languages:** Fluent in Spanish. Intermediate French.  
**Coursework:** Data Structures, Systems Programming, Business Fundamentals, Probability and Statistics, Computing Theory

## EXPERIENCE

**84.51°** | Data Club of Notre Dame January 2025 – Present  
*Team Leader*

- Led a team of 10 to develop a **Tableau** dashboard analyzing Kroger's sales, promotions, and customer segments.
- Processed and analyzed over **20 million** lines of raw data using **Pandas** for data cleaning and preparation.
- Organized weekly meetings with the company contacts and the team to delegate tasks and ensure smooth execution.
- Showcased the final product through a professional presentation in-person at the Chicago office.

**Chawla Lab** | Lucy Family Institute for Data and Society, Notre Dame, IN January 2025 – Present  
*Research Intern*

- Collaborated with a team of 6 on a project with a hospital in Mexico, integrating the **Twilio API** with a LLM to communicate with parents of child cancer patients, and leveraging Spanish fluency to test interactions.
- Reengineered the Twilio Python program from a **WebSocket**-based LLM connection to **server**-based REST API calls
- **Tested** and **configured** Twilio's speech models to ensure they correctly pronounced and interpreted Spanish.

**Fabricaciones y Montajes Metálicos S.A. de C.V.** | Mexicali, Baja California, Mexico July 2024 – August 2024  
*Assistant Manager Intern*

- Developed an application in **C** that stored machine data, including part production capabilities, production speeds, and shift availability to calculate daily production forecasts based on the required parts and quantities for each project.

**Deloitte - Student International Business Council STEM** | Notre Dame, IN February 2024 – April 2024  
*Travel Team Analyst*

- Conducted a professional presentation with 11 students on LiDAR technology to Deloitte in the Chicago office.
- Examined sensors used by Zoox, Waymo, Tesla, and Cruise to understand market trends and advancements.

## LEADERSHIP

**Society of Latino Engineers and Scientists** | Notre Dame, IN August 2024 – Present  
*Professional Development Chair*

- Embraced Hispanic culture by receiving professional career development mentorship and celebrating our community.
- Selected to attend SHPE National Convention, networking with 350 companies and developing professional skills

Organized company-sponsored events to provide recruiting opportunities for club members

**McInerney Fellowship Program** | Notre Dame, IN August 2024 – Present  
*Peer Mentor*

- Facilitated efforts for community events to create impactful connections with First Generation/Low Income students.
- Aided students as a peer mentor to gain knowledge in financing, mental wellness, and professional opportunities.
- Volunteered to maintain the Community Gardens that provide free organic food to support diabetics in South Bend

**Data Club of Notre Dame** | Notre Dame, IN February 2024 – Present  
*President*

- Led teams in data analysis projects using Pandas, including hospital cost comparison across urban and rural areas (100,000+ rows of data) and building an Instagram prediction model for the Cleveland Guardians.
- Communicated with companies to coordinate student projects, ensuring team accountability and overseeing progress.
- Coordinated club-wide meetings, professional development events, coding workshops, and networking opportunities