

# 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.

## EXPERIENCE

**84.51°** | Data Club of Notre Dame

January 2025 – Present

*Team Leader*

- Lead a team of 10 to develop a **Tableau** dashboard analyzing Kroger's sales, promotions, and customer segments.
- Process and analyze over **20 million** lines of raw data using **Pandas** for data cleaning and preparation.
- Organize weekly meetings with the company contacts and the team to delegate tasks and ensure smooth execution.

**Chawla Lab** | Lucy Family Institute for Data and Society, Notre Dame, IN

January 2025 – Present

*Research Intern*

- Collaborate with a team of 6 on a project with a hospital in Mexico, integrating the **Twilio API** (Voice & WhatsApp) with a LLM to communicate with parents of child cancer patients, and leveraging Spanish fluency to test interactions.
- Automate** tests to evaluate the LLM ability to handle unexpected prompts while maintaining a natural conversation.
- Test** and **configure** 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.
- Eliminated the need for weekly manual forecasting calculations for **100+** projects, increasing efficiency and accuracy
- Generated **50+** invoices and participated in weekly meetings with different departments to share updates on progress.

**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.
- Scrutinized alternative technologies, partnerships, risks, and gained insights into consulting and reliable research.

## LEADERSHIP

**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

**Society of Latino Engineers and Scientists** | Notre Dame, IN

August 2024 – Present

*SHPE National Convention Attendee*

- Embraced Hispanic culture by receiving professional career development mentorship and celebrating our community.

**Data Club of Notre Dame** | Notre Dame, IN

February 2024 – Present

*Team Leader*

- Directed a team of 4 in the Lucy Institute Data Challenge, analyzing over 100,000 lines of hospital data from Indiana alongside census data with **Pandas** to identify how treatments in urban and rural areas differ in cost.
- Managed a team of 3 students to develop an Instagram Prediction model with **Pandas** for the Cleveland Guardians to process 250 lines of Instagram data, and showcased our model to a marketing specialist and a data scientist via Zoom.