Rene Alzina

760 222 7640 | ralzip05@gmail.com| linkedin.com/in/rene-alzina/ | github.com/ralzina | renealzina.me

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