

Michelle Leon-Cigarroa

(512)-694-2790 | mleoncig@nd.edu | www.linkedin.com/in/michelle-leon-cigarroa | <https://mleoncig14.github.io/>

EDUCATION

University of Notre Dame | Notre Dame, IN
Bachelor of Science, Major: Computer Science

May 2025
GPA: 3.15

EXPERIENCE

Graduate Business Career Development | Notre Dame, IN

Sept 2024 - Present

Website, Communications and Systems Support

- Maintained and updated career development websites, including the Graduate Business Career Development - MBA Programs and Recruit Mendoza sites, using **HTML** and **CSS** to improve site functionality and ensure consistent formatting
- Identified three primary factors contributing to poor end-user satisfaction with career development websites and am in the process of implementing updates based on research findings.
- Expected outcomes include improved interaction rates, which will be validated by upcoming feedback surveys

enFocus | South Bend, Indiana

May 2024 – July 2024

Industry Intern

- Collected and analyzed over 900 rework instances across 6 stations at a mid-size manufacturing company in Northern Indiana, identifying potential for a 15% improvement in efficiency and implementing targeted process enhancements
- Developed comprehensive visualizations and heatmaps derived from 900 rework instances, delivering targeted insights to upper management that identified key bottlenecks impacting production efficiency across six critical plant floor stations.
- Consulted with upper management and plant floor teams, managing stakeholder relationships to gather insights, facilitating collaboration between leadership and workers to drive data-informed process improvement recommendations

Lippert Components, Inc, INDustry Labs | South Bend, Indiana

Jan 2023 – May 2023

Autonomous Mobile Robots Research Group

- Analyzed critical challenges in implementing Autonomous Mobile Robots for material handling at a glass manufacturing facility, delivering findings to fix the three biggest causes of workflow inefficiencies and improve operations
- Interacted directly with two supplier representatives over a two-month period, collecting insights which led to identifying top-performing AMR systems tailored specifically for streamlined operations in glass manufacturing processes
- Programmed and rigorously tested the MiR200 AMR at Industry Labs, Notre Dame, IN; evaluated operational boundaries while analyzing functional strengths and weaknesses for future integration into glass manufacturing workflows.

Pedro's Trees Inc. | Austin, Texas

Aug 2013 – July 2022

Primary Translator and Web Developer

- Collaborated with the owner to facilitate client negotiations and business orders by providing accurate translation, which enhanced client relationships and streamlined business processes
- Developed and maintained the company website using **React**, **JavaScript**, **HTML**, **Node.js**, and **MySQL**, with the database hosted on **AWS** and deployed on **Render**, leading to improved functionality and a 10% increase in clientele

PROJECTS

goldenGuess

Jan 2024 – May 2024

- Designed a multi-language Wordle game **using Django, JavaScript, and Python**, allowing users to select a preferred language with a responsive front-end for dynamic interactions and real-time game logic
- **Integrated user authentication and coin-based system**, enabling users to log in and purchase coins for additional tries
- Incorporated **Django's** embedded **SQL** functionality to manage user data and track coin balances, ensuring a smooth and persistent gaming experience across sessions

Weather Wizard

Aug 2023 – Dec 2023

- Showcased expertise in **SQL** for comprehensive database management, query optimization, and innovative database design
- Created a Django-based weather analysis, prediction, and recommendation website using **Python**, **HTML**, and **SQL**, incorporating **AI** models to enhance accuracy and user experience

Operating Systems Principles

Aug 2023 – Dec 2023

- Implemented a message queue client, integrating with a rudimentary pub/sub system using **POSIX** threads and network sockets through a **RESTful API**. Implemented **HTTP requests**, a queue structure, and user interface with synchronization primitives
- Designed a simplified Unix File System by programming the shell program, file system, and disk emulator to interact seamlessly, taking into consideration data limitations

SKILLS

Frameworks & Tools: Django, React JS, Rest API, Bootstrap, Git, MySQL, PowerBI, Linux

Languages: Python, Java, JavaScript, C, SQL, MATLAB, HTML, CSS, Assembly, PHP

Key Skills: Web Development, AI/ML, Databases, System Design, Data Visualization, Spanish/English Translation