José Benítez
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EDUCATION

University of Notre Dame, *Notre Dame, IN* **Class of 2024**
College of Engineering, *Bachelor of Science in Computer Science* ***GPA: 3.75/4.00***
Major: Computer Science | **Minor:** Engineering Corporate Practice
Spain Engineering Summer Study Abroad, Summer 2022 | Silicon Valley Semester Abroad, Spring 2023
Coursework: Operating Systems, Compilers, Systems Programming, Databases, Computer Security, Data Structures, Theory of Computing

SKILLS

Skills: Python, C, C++, Linux, JavaScript, AutoCAD, HTML, CSS, MySQL, AWS, React JS, Node JS, MATLAB, Solid Works, ARM Assembly
Certificates: Microsoft Technology Associate: Security Fundamentals | MTA: Database Administration Fundamentals *Other*: Fluent Spanish

WORK EXPERIENCE

Computer Vision Undergraduate Research, *Incoming Embedded Systems Researcher, South Bend, IN* **Present (Anticipated)**
- Will be developing an embedded system for continuous online video analytics using Machine Learning and Computer Vision technologies.
- Will be implementing custom algorithms and models for real-time video analysis, including object detection, tracking, and recognition.

Ambienta LLC, *Co-founder, San Juan, PR* **Present**
- Founded and led a manufacturing company committed to delivering personalized products to our clients, completely transforming their environment with a touch of uniqueness, and translating their abstract ideas into tangible solutions.
- By utilizing AutoCAD for creating accurate and personalized designs and employing Flow software and water jet mechanics, I successfully oversaw the production process for art pieces cut with a Computer Numeric Control (CNC) machine.
- Developed and implemented an application and internal tools leveraging Next.js and MongoDB's open-source capabilities and scalability benefits to streamline the cost estimation process with the end goal of enhancing team efficiency and maximizing product exposure on the web.

Copia PBC, *Software Engineer Intern, Palo Alto, CA* **Spring 2023 - Present**
- Actively support the logistics and analytics of commercial food donations at a rapidly growing startup by developing, maintaining, and improving the Web Portal used by thousands daily.
- Utilize front-end frameworks and libraries such as React JS, Semantic UI and Redux to deliver user-friendly interfaces and streamlined workflows for managing donations and matching them with recipients. Implemented API endpoints to manage these requests.
- Played a significant role in the development process of an advanced algorithm that matches donors and recipients based on availability, distance, and capacity, among other factors.

Notre Dame CSE Theory of Computing, *Teaching Assistant, Notre Dame, IN* **Fall 2022**
- Provided support to student learning the fundamental concepts that form the backbone of the field of Computing including Combinational Logic, Complexity, Finite Automata, Pushdown Automata, and Turing Machines.
- Held Office Hours to help guide and teach students, grade assignments, and grade exams.

Ernst & Young, *Technology Consulting Intern, Chicago, IL* **Summer 2022**
- Integrated into a cross-functional team of developers, designers, and business analysts in the midst of building a web platform for American Public Life Insurance Company.
- Assisted senior consultants in conducting comprehensive technology assessments for multiple client organizations, resulting in improved IT infrastructure, systems, and processes.
- Supported the development of project deliverables, including technical specifications, process maps, and project documentation, during agile sprints for 3 successful implementations.

PROJECTS

Spanky's Restaurant Platform, *Full Stack Developer, Notre Dame, IN* **Fall 2022**
- Designed, developed, and deployed a website for the O'Neill Family Hall's kitchen alongside two other team members. This application was built in React, Node, Express, and MySQL. It was deployed and hosted using Planet Scale, Amplify, and EC2, AWS platforms.
- Implemented an optimized client ordering experience, resulting in a 60% reduction in ordering time, through the creation of an intuitive user interface that simplifies the server-client interaction.
- Developed an algorithm that considers queue length and past turnaround times to notify order completion and pickup readiness.

Artificial Intelligence Connect 4 Program, *Software Engineer & Project Manager*, *Notre Dame, IN* **Spring 2022**
- Developed and implemented an unbeatable AI-powered Connect 4 program using the Mini-Max algorithm in Python. Produced a game interface with different modes as well as distinct levels of difficulty.
- Successfully collected over 500 game plays and 70 survey responses, providing ample information to improve the user experience.

ACTIVITIES AND LEADERSHIP

Puerto Rican Student Association at Notre Dame, *President, South Bend, IN* **Spring 2023-Present**
- Fostered a vibrant community and celebrated the rich Puerto Rican culture within our club of approximately 50 members.
- Expanded club influence by leveraging Hispanic Heritage Month and the club's podcast to effectively promote and coordinate engaging activities, including Latin night events, fundraisers, and community outreach initiatives.
- Organized a series of fundraising events that raised more than $1,000 for nonprofits in preparation for natural disasters during hurricane season, ensuring swift and effective support in times of crisis.

Building Bridges Club, *Mentor, Notre Dame, IN* **Fall 2020-Present**
- Lead and mentor a group of 15 first-year Computer Science students, offering career advice, sharing coding tips, and providing access to valuable resources meant to expand their horizons and showcase the wide range of opportunities available in the field.

INTERESTS

Interests: Eagle Scout | Real Madrid| Security Investing | Web Development | Cloud Computing| Database Administration | Chess | Entrepreneurship