Dana Jimenez

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EDUCATION

University of Florida (UF), Herbert Wertheim College of Engineering   **Expected Graduation: May 2027**

Bachelor of Science in Computer Science

GPA: 3.67/4.0

Relevant Coursework: Data Structures, Algorithms, Discrete Structures, Programming Fundamentals 1 and 2, Calculus 1-3, Physics 1 and 2

TECHNICAL SKILLS

Programming Languages: Python (proficient), C++ (intermediate)

Tools: GitHub, SFML, Pygame, AutoCAD, Microsoft Office Suite, Adobe Suite, Google Suite

Certification: Data Analytics (on-going)

EXPERIENCE AND PROJECTS

Game Development Projects   **Gainesville, FL**

Lead UI/UX Designer & Developer   **March 2024 –December 2024**

- Designed and implemented Minesweeper and Sudoku games with intuitive user interfaces, engaging features like leaderboards, and efficient gameplay mechanics using SFML.
- Developed core algorithms, including randomized mine placement, recursive tile-revealing, and Sudoku puzzle generation, ensuring accurate functionality and smooth user interaction.
- Streamlined testing and debugging workflows with a debug mode, optimizing performance and ensuring robust game state management.

Image Processing Project   **Gainesville, FL**

Lead Developer   **October 2024 –November 2024**

- Architected and implemented a C++ program to process binary TGA image files, supporting tasks like blending, color manipulation, channel extraction, and image rotation.
- Engineered a dynamic command-line interface enabling user-defined image processing operations, with error handling and flexible functionality for complex workflows.
- Ensured compatibility across platforms using Makefiles, rigorous debugging, and testing.

Various Games   **Gainesville, FL**

Software Developer   **January 2024 –April 2024**

- Developed and implemented game logic for multiple projects, including Tic Tac Toe, Blackjack, and Connect Four, ensuring adherence to game rules and mechanics.
- Created intuitive user interfaces that enhanced player engagement and overall gaming experience through user-centered design principles.
- Conducted rigorous testing and debugging to ensure software reliability and performance, resulting in high-quality game applications.

Ardurra   **Miami, FL**

Civil Engineer Intern   **June 2023 – August 2023**

- Developed expertise in roadway design software, enabling more effective collaboration on complex projects and enhancing overall team performance.
- Strengthened project knowledge through close collaboration with a peer mentor, improving task execution and problem-solving skills.
- Participated in site visits to observe construction processes and verify design implementation, contributing to better understanding of real-world applications and engineering practices.

INVOLVEMENT AND LEADERSHIP

Society of Hispanic Professional Engineers at UF   **Gainesville, FL**

Member   **August 2023 – Present**

- Actively participate in technical workshops and networking events, fostering professional relationships within the engineering community.

- Engage in leadership and team-building activities, enhancing collaborative problem-solving skills and technical expertise.
- Contribute to STEM outreach initiatives, supporting fellow members in organizing events that promote diversity in engineering.

SHPE JR JR   **Gainesville, FL**
Mentor/Tutor   **August 2023 – December 2023**
- Mentored an elementary school student, introducing her to STEM fields through engaging activities, inspiring her interest in science and technology.
- Provided tutoring and guidance in academic subjects, building her confidence and helping her discover her passions.
- Served as a consistent and stable role model, contributing to her personal development and fostering a positive learning environment.

Party For a Purpose   **Miami, FL**
Event Coordinator   **September 2022 – May 2023**
- Spearheaded the planning and execution of a senior prom for high school students with disabilities in the local community, ensuring an inclusive and memorable event.
- Led a comprehensive fundraising campaign, securing sponsorships and donations that exceeded financial goals and directly contributed to the success of the event.
- Managed event logistics, overseeing venue setup, decorations, and participant coordination to deliver a seamless experience, while fostering a welcoming and supportive environment for students and families.

ADDITIONAL

Awards: Dean's List, Florida Bright Futures (Florida Academic Scholars), National Hispanic Recognition Program
Languages: English (native), Spanish (fluent)
Soft Skills: Communication, collaboration, adaptability, conflict resolution, time management, attention to detail, empathy