Gabriel Areas Mayorga

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SKILLS

Languages: C++, C, Python, HTML, CSS, JavaScript, Java, TypeScript, ARM-v8 Assembly
Technologies/Frameworks: WebGPU, SFML, Git, OpenGL, Leaflet.js, Pygame, Catch2, PyTorch, p5.js
Tools: GCC Compiler, Unix command line, GNU Debugger, JetBrains IDEs
Certifications: Autodesk Fusion 360 Certified Associate

EDUCATION

University Of Florida   Gainesville, FL

Undergrad, Computer Science   *2027*
Minor in Mathematics

GPA: 3.51

Coursework

- •COP3530 - Data Structures and Algorithms
- •COT3100 - Application of discrete structures
- •COP3503 - Programming fundamentals 2
- •CDA3101 - Computer Organization
- •COT3100 - Applications of Discrete Structures

PROJECTS

UF skate spot finder   Oct 2024

- Developed an interactive website to help users discover skate spots around campus, utilizing HTML, CSS, and JavaScript for a responsive and user-friendly interface.
- Integrated Leaflet maps API to provide dynamic, location-based visuals and map functionalities, enhancing user engagement and navigation

C++ 2D Physics Simulation   June 2024

- Used SFML to create a highly efficient and optimized user interface
- Implemented a collision and gravity system using vector analysis and Cmath

Game of Life Simulation in WebGPU   Aug 2024

- Leveraged WebGPU's parallel computing capabilities to efficiently simulate cellular automata on the GPU
- Implemented compute shader pipelines to handle parallel cell state updates and rendering

EXPERIENCE

Sales Associate, Lowes   May 2024 - Aug 2024

- Fostered and maintained customer connections with an over 80% lead to sale conversion rate
- Leveraged extensive product knowledge to assist customers with tailored solutions, contributing to department sales goals
- Collaborated with team members to ensure a safe and organized work environment, adhering to all company protocols and safety standards

Morning Operator, Old Navy   June 2023 - Aug 2023

- Stocked, managed and updated inventory
- Aided in the opening of the store as well as the freight shipments
- Manned the cashier and supported customers in store

LEADERSHIP & COMMUNITY INVOLVEMENT

VEX Robotics, Elementary Program Mentor   Aug 2019 - May 2023

- Mentored elementary school students (grades 3-5) in robotics fundamentals, fostering their interest in STEM education
- Guided teams through the complete robotics development cycle, including design, assembly, and programming
- Provided hands-on instruction in VEX programming fundamentals, enabling students to create functional competition robots