MAKALA ROBERSON

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EDUCATION

The University of Texas at San Antonio   December 2024
Bachelor of Science, Computer Science (Data Science Concentration)

RELEVANT EXPERIENCE

Data Science Intern/Ambassador   June 2024 - August 2024
City of San Antonio - Ready to Work, San Antonio, TX

- Authored a Python Script to identify and rectify data discrepancies within company metrics, improving data accuracy and operational efficiency
- Cleansed 1,000+ duplicate employer data entries, improving the accuracy of employer names displayed on the company dashboards and contributing to better-informed decision-making processes
- Generated comprehensive data reports using Salesforce, enabling agencies to identify key performance metrics and improve operations

TECHNICAL SKILLS

Programming Languages: HTML, CSS, JS, C, Python, SQL, C#
Frameworks & Tools: Bootstrap, Unity Engine, PowerBI, Salesforce
Operating Systems: Linux/Mac OS
Others: SEO, MySQL, GitHub Pages, Google Search Console

PROJECTS

HSI STEM Research Lab Website (Personal Project)   August 2024 - Present

- Managed the full lifecycle of the website as a contractor, from initial design and development to ongoing updates and maintenance, ensuring a responsive, professional online presence for the research lab
- Developed the website using HTML, CSS, and JavaScript, while integrating tools such as Bootstrap for a mobile-first design

Women in STEM Website (Personal Project)   May 2024 - Present

- Created and implemented a responsive website for the Women in STEM organization at UTSA using HTML, CSS, and JavaScript
- Leveraged Bootstrap to ensure mobile-first design and accessibility across devices, increasing user engagement by 25%
- Optimized website for search engines (SEO) utilizing Google Search Console to increase visibility and improve search rankings, making the organization easier to find online
- Deployed the site using NameCheap DNS and GitHub Pages and monitored visibility through Google Search Console to track SEO performance

Pinky Game (Class Project)   January 2024 - May 2024

- Constructed a 5 level 2D platformer game using C# and Unity Engine, demonstrating advanced game design and programming skills
- Implemented physics simulation and AI, boosting gameplay experience with realistic movements and responsive enemy behavior
- Optimized game performance through rigorous debugging and testing, ensuring smooth and engaging gameplay

Dino Detectors (Hackathon Group Project)   February 2024

- Designed and deployed a MySQL schema, establishing a robust data structure for the web app that efficiently managed data storage and retrieval
- Rapidly acquired HTML and CSS skills to create the "Dinopedia" page, enhancing the project's UI/UX for a better user experience

EXTRA CURRICULAR ACTIVITIES

Women in STEM, Vice President, San Antonio, TX   January 2024 - Present

- Enhanced leadership skills through effective team management and communication, ensuring smooth operation and achievement of organizational goals
- Led initiatives to promote women in STEM, fostering an inclusive environment and boosting membership