SERENA HUANG

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EDUCATION

University of Maryland, College Park
Bachelor of Science in Computer Science
Bachelor of Science in Math

MAJOR PROJECTS

Technica Tech Organizer   *Apr 2023 - Nov 2023*
- Worked on a team with 11 other organizers to create three different websites for Technica, the world's largest hackathon for underrepresented genders in tech
- Developed web-based registration using VUE3 with links to an AWS database
- Updated the day-of website using VUE2 to better fit this year's theme
- Eliminated 70% of the issues with resizing through implementing Bootstrap 5, making the website accessible to devices and monitors of all sizes.
- Worked closely with the design team to translate mockups into visually appealing interfaces
- Documented website creation and maintenance weekly through GitHub

Technica 2022 Hackathon   Oct 2022
- Led a team of 4 people to develop an application that guides college students through creating a balanced work-life routine using Python3
- Implemented all of the graphics and created the movement controls for user interaction
- Conducted thorough testing and debugging to identify and resolve 97% of character movement and collision-related bugs, ensuring a smoother user experience
- Outlined group goals and delegated team tasks to ensure a clean and complete final product

International Baccalaureate Computer Science Extended Essay   *2020 - 2022*
- Researched past and current AI implementations for musical analysis
- Developed an AI to classify classical music into the four basic eras of Western Classical Music using Python's TensorFlow library
- Conducted experiments by changing the number of nodes in each layer and the total amount of layers to determine which structure of the neural network achieved the highest accuracy when ran on the test data
- Compiled and analyzed data to ensure proper data training, reducing unnecessary data to increase the efficiency of training the AI by 30%

WORK EXPERIENCE

Community Assistant   *2022 - 2023*
- Staffed a 24-hour Service Desk
- Logged and loaned keys with appropriate identification
- Responsible for organizing, logging, and delivering packages
- Maintained understanding of and appropriate execution of emergency procedures and resources

TECHNICAL SKILLS

Python, Java, C, x86 Assembly, JavaScript, AWS, Matlab, HTML/CSS, Bootstrap 5, TensorFlow, Vue, Git, VIM, Jupyter Notebook, Google Workspace, Microsoft Office Suite, PC Building