WINSTON N. TAN

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TECHNICAL SKILLS

Programming Languages: Java, C, C++, Python, HTML/CSS, JavaScript, MATLAB, Assembly, Ruby, Ocaml
Libraries/Frameworks: Flask, Pandas/NumPy, Node JS, Express, Jupyter, MongoDB, Junit, Apache
Tools/Operating Systems: Git/GitHub, Windows, macOS, Linux, RESTful APIs, Arduino, Blender, Postman, Anaconda, Google Colab

EXPERIENCE

Acclaim Technical Services (ATS) - SWE/Extended Reality (XR/VR) Intern – Summer 2022

- Used Flask (Python library) and RESTful API to help test and develop the backend of a government prototype. Used Git and HTML to update frontend of prototype.
- Tested pre-released software such as Virtualitics (Advance AI Analytics Tool) to filter out data from large datasets (over 180,000 points) to create a pleasing representation and analysis for the customer
- Deployed Blender to create a variety of 3D models to ingest into virtual reality worlds
- Employed RESTful API methods to ingest data such as coordinates onto a Cesium GIS mapping system
- Tools used: REST APIs, Postman, PyCharm, Flask, Python, Blender, HTML, Git/Git Bash, Virtualitics, Spatial, GIS, and Oculus Rift

PROJECTS

Autonomous OTV Rover, *C++, Arduino, Circuit Lab, WIFI Vision System*

- Developed an autonomous rover capable of navigating through a course via ultrasonic sensors and a WIFI vision system
- Optimized power output to motors for enhanced course/task completion and navigation
- Lead a team of 7 to build a rover capable of extinguishing and reporting flames using snuffers, flame sensors, WIFI module, and servo motor; budgeted project using Microsoft Excel

Impact of Per Game Stats on NBA Team Success, *Python, HTML, NumPy/Pandas, BeautifulSoup*

- Gathered and parsed over 9000 data points regarding the top 50 teams from an NBA database. Focused on the top teams between 2010-2020
- Utilized NumPy, Pandas to bring a thorough analysis of a team's success based on their season's statistics

Terp Store, *HTML/CSS, Apache, XAMPP, Php*

- Created a webpage mimicking Terrapin Webstore using HTML and CSS
- Configured Apache and XAMPP to serve the webpage on a local server for testing and developing purposes
- Incorporated several HTML features such as forms, fields, links, and other tags to enable website navigation across multiple pages

Personal Portfolio Website, *HTML, CSS, JavaScript*

- Designed a personal portfolio displaying my skills, projects, and personal life via HTML, CSS, and JavaScript

Shell Project, *C, Makefiles*

- Developed the guts of a shell that supports Boolean operations, pipes, and file redirection
- Demonstrated proficiency in C programming by utilizing advanced features such as pointers, input/output redirection, makefiles, threads, and processes

EDUCATION

University of Maryland, College Park   **May 2024**

Department of Computer Science, Computer Science Major

Robert H. Smith School of Business, General Business Minor

RELEVANT COURSEWORK

CS and Engineering: Data Science; Data Structures; Web Application Development; Object-Oriented Programming; Discrete Structures/Mathematics; Computer Systems; Organization of Programming Languages; Algorithms; Calculus I/II; Differential Equations, Applied Probability and Statistics; Physics I/II; Intro to Electrical & Computer Engineering; Digital Logic Design; Engineering Design

Business: Principles of Management, Financial Management, Entrepreneurial Opportunity Analysis; Discovering New Ventures; Accounting, Financial Management