Robert Wang

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SKILLS

Languages | Python, Java, HTML, CSS, C#, C, JavaScript, JSX, OCaml

Software & Tools | Visual Studio Code, ReactJS, GitHub, Git, Terminal, Unity, Blender, Flask

EDUCATION

Computer Science Student at the **University of Minnesota Twin Cities (yr. 2) – Tech GPA: 4.0**
Relevant Coursework: Python, Java, Data Structures and Algorithms, Linear Algebra, Discrete mathematics, Statistics

PROJECTS

Personal Portfolio Website
Personal project | Used: **ReactJS, HTML, CSS, JSX, JavaScript**

- Implemented the React library to create easily reusable components in the website
- Used React Chart JS to create well organized charts of website data
- Designed the layout and style of the website myself, and deployed to Azure Web Apps

Task List with User Login
Personal project | Used: **HTML, CSS, Python, Flask, JavaScript**

- Implemented the Flask framework to handle both aspects of the front-end and back-end with Python
- Used the database class of the Flask framework to handle various user account data, allowing for each user to store their own specific and private information
- Added a security check during login and sign-up using Flask database, insuring secure accounts

Unity First Person Shooter Game
Personal project | Used: **Unity, Blender, C#, Visual Studio**

- Created all aspects of an FPS game including player UI using the Unity game engine as a framework.
- Programmed detailed item functions, player movement, and enemy AI using C# in Visual Studio
- Sculpted custom stylized 3D models for the game using the Blender modeling software

Random Word Generator
Coursework: Final project in CSCI 1913 | Used: **Java, VS Code**

- Created a program that takes the dictionary from the English, or any English-like language, and returns a list of generated words that completely follow the phonetic patterns of said language
- Implemented custom Java classes to create objects and data structures to perform the task efficiently
- Took in large amounts of word data to train the program in language phonetics and how to string together letters

Python Turtle Rocket Game
Coursework: Final project in CSCI 1133 | Used: **Python, Turtle Graphics, VS Code**

- Built inside VS Code using the Python Turtle library as a framework to create a simple, yet practical rocket game
- Implemented game mechanics, fuel regulators, keyboard controls, and random obstacles using Python

WORK & EXTRACURRICULARS

Muon-to-Electron (Mu2e) engineer	Worked to build electron detector parts in the Mu2e experiment, a national physics project searching for unknown physics.	*(January 2022 – Current)*
Science Olympiad	Helped lead my high school SciO build team to the top 3 in the region, participating in the creation of various mechanical and digital projects.	*(November 2017 – May 2021)*
VANTAGE business Co-op	Connected with the owners of two companies as part of a high school program, and worked to manage reviews and customers on their websites and to collect new data to help their business.	*(September 2019 – June 2020)*