Jaehyeong Park

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TECHNICAL SKILLS

Languages: JavaScript, HTML, CSS, Python, C++
Technologies: Git, Arduino, TinkerCAD, Blender
Libraries: jQuery, NumPy, pynput, Matplotlib

PROJECTS

CNDR | Hack the North 2022 Project | React   September 2022
- A react app that tracks wildfires live and tailors mitigative solutions for land owners in the agricultural and lumber industry.
- Uses API calls from Google Map and NASA's Earth Observatory Natural Event Tracker to create a live map of wildfires around the world.
- Uses a shortest path algorithm and Open Weather Map to determine risk levels of a location and suggests a course of action accordingly.

Personal Website | Html/CSS, Javascript   August 2022
- Designed and launched a personal site with HTML/CSS + JS optimized for desktop and mobile use.
- Incorporates responsive, modern project pane design with smooth animations.

Weather App | Html/CSS, Javascript   August 2022
- Designed and launched a web application using HTML/CSS + JS optimized for desktop and mobile use.
- Uses API calls from Open Weather Map to receive the information.
- Includes a modern dashboard design and an animated background.

PyTetris | Python   June 2022
- Implemented the retro game "Tetris" using Python and Pygame from scratch. Included user features such as fast block placement and arrow key control.
- Cycled through design iterations, using debugging tools to solve an issue where blocks left the grid before they appeared.

Traffic-Intersection | C++, Arduino, TinkerCAD, Blender   June 2022
- Processed LED signals using parallelization and timers with Arduino C to design and build a traffic light intersection system.
- Proposed, debugged, and optimized a functioning prototype using Blender and TinkerCAD software.

Auto Clicker | Python   June 2022
- Created an auto clicker in Python using threading and pynput. Used OOP principles to organize code and a running listener to check the program state.

Bomb-Shield Game | Python   June 2022
- Created a game similar to Space Invaders as a final project for my school's ICS201 course using pygame.

VOLUNTEER EXPERIENCE

Haven Safe   May 2022 – August 2022
Volunteer   *Remote*
- Haven is a safety expert-approved app used by students to quickly connect with loved ones and the police in emergencies.
- Advocated for campus safety in schools and universities by launching marketing campaigns on social media.

EDUCATION

Earl Haig Secondary School   Sep 2020 – June 2024
Ontario Secondary School Diploma. Honour Roll.   *Toronto, ON*
- **External Coursework:** Edx: NYUx - Introduction to C++, NYUx - Advanced Programming in C++, Harvard CS50