

# Jaehyeong Park

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## TECHNICAL SKILLS

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**Languages:** Python, C++, JavaScript, HTML, CSS

**Technologies:** Git, Arduino, TinkerCAD, Blender

**Libraries:** jQuery, NumPy, pynput, Matplotlib

## PROJECTS

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- 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 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.
- 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.
- CNDR | Hack the North 2022 Project** | [React](#) September 2022
- A web application that tracks wildfires across the globe and tailors mitigative solutions for land owners in the agricultural and lumber industry.
  - Quantifies risk levels of a user's location using an algorithm and suggests an appropriate course of action accordingly.

## VOLUNTEER EXPERIENCE

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- 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

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- 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,