
Skills

Languages C++, C, Java, JavaScript, HTML, CSS, Python
Tools Git, Leap Motion, Arduino, Raspberry Pi, Maven, IntelliJ

Projects

Simpli-Fly — *Python, C, Arduino, Leap Motion*  devpost.com/software/simpli-fly
CANSOFCOM 1st place – HTN 2018

- A program that enables a drone to be flown using a Leap Motion Controller
- Used Leap Motion controller to translate hand motions to propellor speed changes
- Transmitted propellor speed data from PC running Python to on-board Arduino
- Won Canadian Special Operations Forces Command 1st place prize at Hack The North 2018

Goose Shooter — *JavaScript, HTML, CSS* github.com/HanssonLin/Goose-Shooter

- 2D shooting game hosted on a React arcade video game website
- Handled sprite collisions and movement with JavaScript

FileVault — *Java* github.com/HanssonLin/FileVault

- File storage app that enables users to log in to upload or view their files
- Uses RFID chips to save username and password login credentials
- Stores files that users can access from their account

LED Matrix Music Visualizer — *Python, Raspberry Pi* github.com/thomaskou/RGB-Matrix-Audio-Visualizer

- Program that plays .wav files and analyzes the frequency data to be visualized on an LED matrix.
- Played music file while analyzing audio data using multithreading
- Displayed converted frequency data on an LED matrix through a Raspberry Pi

Experience

Inetco Systems Burnaby, BC
March 2018
Software Development Intern

- Created a system to update company-used dependencies using Java and Maven
- Started work on web apps using JavaScript, HTML, and CSS, and participated in Sprint meetings

Awards

Software Engineering Entrance Scholarship

- Awarded to a select few top applicants to the University of Waterloo's Software Engineering program

BC Provincial Table Tennis Team Champion

- Won gold in the 2016 BC Secondary School Team Championships

Education

University of Waterloo • Software Engineering Waterloo, ON
Expected April 2023
Pursing B.S.E. Software Engineering

Elected Software Engineering Society Representative

- Attended weekly meetings to organize Software Engineering events and to vote on modifications to the society's constitution