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## Skills

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

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## Projects

**Simpli-Fly** — *Python, C, Arduino, Leap Motion*  [devpost.com/software/simpli-fly](https://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](https://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](https://github.com/HanssonLin/FileVault)

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

**LED Matrix Music Visualizer** — *Python, Raspberry Pi* [github.com/thomaskou/RGB-Matrix-Audio-Visualizer](https://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

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## Experience

**Inetco Systems** Burnaby, BC  
March 2018  
*Software Development Intern*

- Created a system to update company-wide dependencies using Java and Maven
- Worked on web apps using JavaScript, HTML, and CSS, and participated in Agile development process

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## 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

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## Education

**University of Waterloo • Software Engineering** Waterloo, ON  
Expected April 2023  
Pursuing 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