

---

## Skills

Languages	C++, C, Java, JavaScript, HTML, CSS, Python, SQL
Tools	Git, Leap Motion, Arduino, Raspberry Pi, Maven
Technologies	Node.js, Express.js, PostgreSQL, React

---

## Experience

### Inetco Systems

Burnaby, BC

*Software Development Intern*

*March 2018*

- Introduced **Maven** to be adopted as new build automation tool
- Created a system to **update company-wide dependencies** using **Java** and Maven
- Employed **unit and integration tests** on update system, achieving **90%** code coverage
- Worked on web apps using **JavaScript, HTML, and CSS**, and participated in **Agile** development process

---

## 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 convert **hand motion** and vectors to Pitch, Roll, Throttle values
- Transmitted motion data from PC running **Python** to on-board **Arduino** through **Bluetooth** using **PySerial**
- 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 created using **React** and hosted on an arcade video game website
- Created using **pure JavaScript** without use of game engines
- Handled collisions and positioning using rectangular hitboxes and coordinates
- Designed a difficulty system by scaling enemy generation patterns according to player's score

### FileVault — Java

[github.com/HanssonLin/FileVault](https://github.com/HanssonLin/FileVault)

- Simple and intuitive **file management system** using **Swing GUI** for users to access and store files
- Implemented **string processing** for password input verification
- Used **RFID chips** to save username and password login credentials
- Maintained a modular program design by adhering to **object-oriented** programming principles

---

## Awards

### Software Engineering Entrance Scholarship • \$4,000.00

- Awarded to select top students admitted to the University of Waterloo's Software Engineering program

---

## Education

### University of Waterloo • Software Engineering

Waterloo, ON

Pursuing B.S.E. Software Engineering

*Expected April 2023*

*Elected Software Engineering Society Representative*

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