Hansson Lin

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Skills

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

Experience

Inetco Systems   Burnaby, BC
Software Development Intern   *March 2018*
- Created a system to **update company-wide dependencies** using **Java** and Maven
- Introduced **Maven** to be adopted as new build automation tool
- 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*
Hack The North 2018 Winner
- 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*
- 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*
- 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