

# Hansson W.J. Lin

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## Skills

**Languages** C++, C, Java, JavaScript, HTML, CSS, Python  
**Tools** Git, Maven, Visual Studio Code, IntelliJ  
**Technologies** Leap Motion, Arduino, Raspberry Pi

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## Projects

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

- Utilized Leap Motion controller to monitor steering hand
- Translated hand motions to propellor speed changes
- Transmitted information from PC running Python to on-board Arduino

**Goose Shooter** • *JavaScript, HTML, CSS* [github.com/HanssonLin/Goose-Shooter](https://github.com/HanssonLin/Goose-Shooter)

- 2D shooting game involving sprite collisions and movement
- Part of a React collaboration website that hosts arcade video games

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

- Uses RFID chips to save users and enables them to log in to their account with a password
- Stores files that users can 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)

- Employed a Fourier transform algorithm to convert .wav audio data into frequency data
- Played music file while simultaneously visualizing audio data with multithreading
- Displayed audio 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-used dependencies using Java and Maven
- Trained self to use various web development technologies
- Participated in bi-weekly Sprint meetings

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## Awards

**Canadian Special Operations Forces Command 1st Place Sponsor Prize**

Won at *Hack the North 2018* with Simpli-Fly.

**BC Provincial Table Tennis Team Champion**

Secondary-school team won gold in the 2016 BC Secondary School Team Championships.

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## Education

**University of Waterloo • Software Engineering**

Pursing B.S.E. Software Engineering

- *President's Scholarship of Distinction*
- *Software Engineering Entrance Scholarship*
- *Software Engineering Society Representative*