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## Skills

Languages	TypeScript, JavaScript, C++, C, Java, Python, SQL, HTML, CSS
Technologies	Angular, React, Node.js, Express.js, RxJS, Axios, PostgreSQL
Tools	Git, Arduino, Raspberry Pi, Maven

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## Experience

### Inetco Systems

Burnaby, BC

*Full Stack Developer Intern*

*May 2019 – August 2019*

- Worked on the Insight web application, using **Angular**, **RxJS** and **Nvd3**
- Built a new transactions-history framework, **decreasing** API load times by **50%**
- Designed new transaction data model schema, cutting ingestion speeds for **50+ live RxJS** subscription sources
- Constructed **API interfaces** for transaction data, streamlining future use of CRUD operations
- Implemented **live timezone switching** feature for international users with Moment Timezone

*Software Development Intern*

*March 2018*

- 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**

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## Projects

### CookMe! — React, Node.js, Express, Axios

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

- Web app that lets users search for posts about food and displays recipes for user-selected images
- Engineered API to query live data from **50,000,000+ Instagram posts** based on user's selected food-type
- Generated labels related to food images using **ML image recognition** via **Node** server using Google Vision API
- Constructed recipe API to use selected food label to fetch most relevant recipe from BigOven API

### Simpli-Fly — Python, C, Arduino, Leap Motion

[devpost.com/software/simpli-fly](https://devpost.com/software/simpli-fly)

*Hack The North 2018 Winner*

- A program that enables a drone to be flown using a Leap Motion controller
- Transmitted motion data from PC running **Python** to on-board **Arduino** through **Bluetooth** using **PySerial**
- Used Leap Motion controller to convert **hand motion** and vectors to Pitch, Roll, Throttle values
- Won Canadian Special Operations Forces Command **1st-place prize at Hack The North 2018**

### Goose Shooter — React, 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
- Designed **dynamically scaling difficulty** system that modifies enemy generation patterns according to score
- Implemented collision detection algorithms and positioning using sprite hitboxes and coordinates

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## Education

### University of Waterloo • Software Engineering

Pursuing B.S.E. Software Engineering

Waterloo, ON

*Expected April 2023*