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## Skills

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

## Experience

### Inetco Systems

Burnaby, BC

Full Stack Developer Intern

May 2019 – August 2019

- Worked on Insight, a software platform to monitor transactions in real-time, using **Angular**, **RxJS** and **Nvd3**
- Built a new framework for the transactions data API, decreasing response times by **50%**
- Designed a new transaction data model schema, increasing throughput for **50+** live RxJS subscription sources
- Constructed **API interfaces** for transaction data, streamlining CRUD operations and improving system cohesion
- Implemented a **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% branch coverage**
- Developed web app frontends using **JavaScript** and **Angular**

## Projects

**CookMe!** — React, Node.js, Express

[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 Instagram posts based on user's selected food-type
- Fetched labels related to food images from **Node server** calling Google Vision API
- Constructed algorithm that uses 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

[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

## Education

University of Waterloo • Software Engineering

Pursuing B.S.E. Software Engineering

Waterloo, ON

2018 – Present (Expected 2023)