
Skills

Languages	Java, C++, C, JavaScript, Python, SQL, HTML, CSS
Frameworks	Spring, Node.js, React, Angular, JUnit, RobotFramework, Selenium
Tech & Tools	MongoDB, PostgreSQL, AWS Lambda, API Gateway, DocumentDB, Git, Gradle, Maven, Postman

Experience

Ford Autonomous Vehicles — Cloud Computed Autonomous Driving Solutions

Remote

Software Engineer Intern

Sept 2020 – Current

- Worked on Vehicle Mode Management; handles mode change requests/responses **asynchronously** for AV Cloud Platform
- Engineered security validation service using **AWS Lambda**, **API Gateway**, and **MongoDB**, to block fraudulent requests and **cut business overhead** costs
- Designed **multi-tenancy architecture** for all security services, enabling **thread safe** handling for **concurrent** API requests
- Ensured unit, integration, and functional test coverage for all security services using **JUnit**, **Cucumber**, **Robot** and **Selenium**
- Currently designing **machine learning algorithm**, trained with user tendency history, to dynamically adapt criteria for fraudulent request detection

PointClickCare — Cloud-Based Healthcare Software

Toronto, ON

Software Engineer Intern

Jan 2020 – April 2020

- Worked on cloud-platform's Financial Management module; tasked with billing and payments
- Created new transaction type **End-End feature** for cash app, providing **1.4+ million** active clients a new channel for billing
- Integrated platform-wide support for new transaction type with **Microsoft SQL Server** and **Spring**, enabling cross-compatibility for Financial Management operations on **~100 million** yearly transactions

Inetco Systems — Real-Time Transaction Monitoring and Analytics

Burnaby, BC

Full Stack Developer Intern

May 2019 – August 2019

- Worked on Insight, a software platform to monitor transactions in real-time; used **Angular**, **RxJS** and **Nvd3**
- Built new **type-enforced** JSON-to-Object mapper library for transactions data handlers, decreasing page load times by **30%**
- Designed a new transaction data model schema, increasing data process speed from **50+** API request endpoints

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 hand movement and gestures
- Used Leap Motion controller to monitor hand motion which is then used to generate velocity and position vectors
- Developed algorithm to map vectors to scaled pitch, roll, and throttle values within drones' movement capabilities
- Transmitted movement instructions synchronously from PC running **Python** to on-board **Arduino** through Bluetooth
- Won Canadian Special Operations Forces Command **1st-place prize at Hack The North 2018**

Education

University of Waterloo • Software Engineering

Waterloo, ON

Pursuing B.S.E. Software Engineering — Last Term GPA: 3.93/4 (92%)

2018 – Present