

## **Contact**

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## Skills

## **Development**

Pvthon

Go

C/C++

SOL

Java

Bash

Linux

JavaScript

HTML/CSS

# **Technologies**

Apache Kafka **Protocol Buffers** 

Kubernetes

Docker

Helm

**AWS** 

Datadog

Jenkins

#### **Tools & Database**

Git InfluxDB MongoDB PostgreSQL GCP BigQuery

# Education

University of Waterloo BASc Computer Engineering

# Interests

Watonomous Competitive Badminton Sci-fi Books Guitar Hackathons

# Work Experience

**Auvik Networks** Backend Software Developer Intern Go, C++, Datadog, Protocol Buffers, Apache Kafka, InfluxDB May 2019 - Aug 2019

- Built a core health check service to terminate inactive hanging websockets to improve product stability and reduce product failures by 20%
- Engineered Go micro-service to aggregate metrics for Datadog: increased visibility into product performance and enabled automated alarming resulting in 15% less downtime
- Developed infrastructure for micro-service data pipeline with Apache Kafka and influxDB
- Implemented a multi-threaded scheduler for sockets using Protocol Buffers to relay messages across thread managers

# **IBM Cloud** Production Software Developer Intern

Sept 2018 - Dec 2018

Python, Go, Kubernetes, PostgreSQL, Helm, Jenkins

- Built a Go concurrency-safe micro-service to manage the injection of keys & secrets to Kubernetes; resolved major security encryption flaws and migrated user data
- Used Python to create a Kubernetes resource management micro-service that automates cluster-wide resource syncs and the creation of new customer deployments
- Composed API mocking tools for test suites using Python's Unittest framework to reach over 95% code coverage

### **IBM Cloud** Infrastructure Software Developer Intern Python, Java, Docker, Kubernetes, Bash Scripting, Linux

Jan 2018 - Apr 2018

- Developed micro-services to pipeline custom user resource packages to configure the product and resolved the last major production milestone
- Improved a Python deployment tool to increase the speed of continuous delivery by 30%
- Containerized micro-services and web applications with Docker to deploy on Kubernetes

# **Projects**

### **Coinsys Assistant** Stock Market Analysis

Github.com/coinsys

- Built a Go tool to run a technical analysis of popular cryptocurrencies with the MACD indicator & histogram and displayed the metrics with charts
- Utilized Go Cobra for a CLI interface and created a MongoDB driver interface to fetch and store historic cryptocurrency stocks

### SlapsRoofOfCar.bot Machine Learning

Github.com/slapsroofofcar

- Built a Keras deep learning application in Python to analyze used car market trends and predict prices in your local area using the regularization model to eliminate overfitting
- Processed and scaled datasets to create a neural network with 98% accuracy and low loss, resulting in accurate predictions

### TrashTag It - UW Energy Hacks Sustainable Software

- First place for MLH's Best use of Snapkit SDK and Transposit's framework categories
- Built an Android app that allows users to log outdoor littering locations with pictures
- Developed JavaScript API endpoints to serve location data and a Python Flask web server

## **STALKme - Hack the North** Computer Vision

- Created an automated rotating assembly with a face tracking webcam using an Arduino
- Implemented live facial predictive tracking with OpenCV in Python with cascade classifiers