

# Joshua Samuels

joshmsamuels.me | github.com/joshmsamuels  
jsamue04@uoguelph.ca | 647.457.5674

## EDUCATION

### UNIVERSITY OF GUELPH

Bachelor of Computing

**MAJOR IN SOFTWARE ENGINEERING**

Minor in Business Administration

Sept 2016 - Apr 2021

## COURSEWORK

Data Structures

Object Oriented Programming

Algorithms

Operating Systems

Software Design I, II & III

Intermediate Programming

Discrete Structures in Computing

## SKILLS

### LANGUAGES

Proficient

Go • JavaScript • Java • Bash

Familiar

C • Swift

### TOOLS & FRAMEWORKS

Proficient

NodeJS • ExpressJS • Mocha

Familiar

Spring • Laravel • VueJS

### DATABASES

Proficient

MongoDB • MySQL

Familiar

Redis • Cassandra

### OTHER TECHNOLOGIES

Proficient

Git • Docker • Kubernetes

NPM • Make

Familiar

AWS S3 • Jenkins • Elasticsearch

HTML • CSS

## EXPERIENCE

### SQUARE | SOFTWARE ENGINEER INTERN - IOS

Jan 2020 - Apr 2020 | Kitchener, ON

- iOS intern on CashApp

### SQUARE | SOFTWARE ENGINEER INTERN - DEPLOY

May 2019 - Aug 2019 | San Francisco, CA

- Led the development of a Kubernetes Configuration Management (kube config mgmt) service in Go.
- Collaborated with internal teams including legal and security to improve kube config mgmt and start the open-source process.
- Created a CI flow to securely validate and store Kubernetes manifests in AWS S3 buckets.
- Designed a Go application to detect calls to the CentOS OOM (out of memory) killer to notify application owners if their service was killed.

### UNIVERSITY OF GUELPH | UNDERGRADUATE RESEARCH ASSISTANT

Sept 2018 - Apr 2019 | Guelph, ON

- Led the development of an API to track health and weather patterns in the circumpolar north with NodeJS.
- Refactored unit tests to improve readability and configurability with Mocha.
- Worked with API consumers to ensure all issues were addressed in a timely manner.

### NCR | ENGINEERING INTERN

May 2018 - Dec 2018 | Waterloo, ON

- Developed a transaction processing API in Java for use by financial institutions.
- Refactored code to compile 30% faster and work on an internal platform which cut development time in half.
- Implemented a mocking framework for tests to reduce external test dependencies.
- Won 2nd place in NCR hackathon with a context aware budgeting app.

### ENGAGE PEOPLE | JUNIOR PROGRAMMER

Jun 2017 - Aug 2017 | Markham, ON

- Developed an inventory management system using Laravel (PHP) to keep track of thousands of products.
- Implemented features for a large client in half the expected time.

## PROJECTS

### KUBERNETES

Open-Source Contributor

- Migrating object apply to the Kubernetes API. Contribution details can be found on my GitHub profile.

### GITHUB LICENSE RETRIEVER

Personal

- A program to retrieve first-degree dependency licenses from GitHub using Go.

### KISMET

Personal

- A random number generator (iOS) to generate from a variety of ranges in Swift.