

# Jacky Zhao

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## Education

**University of British Columbia**, 2019 - 2023, B.Sc Computer Science, **GPA: 87.9% // CS GPA: 95.0% (Top 5%)**

*Activities:* [HackCamp](#) Logistics Director at nwPlus, Developer at UBC Launchpad, Varsity Outdoor Club

## Experience

**Hootsuite** – *Software Development Intern* 05/2020 - 09/2020

- Added alerting and monitoring for key SLOs on the paid signup flow with Grafana and Prometheus, **reducing mean time-to-acknowledge for alerts from hours to minutes.**
- Migrated hootsuite.com CMS deployment from Jenkins to ArgoCD.
- Addressed **12 major accessibility issues** with paid and free signup flow React with JavaScript.
- Added various end-to-end frontend tests with Jest, **increasing code coverage by 18%.**

*Technologies:* AWS, Grafana, Prometheus, Jenkins, Ansible, Unix, Terraform, JavaScript, React, Jest, PHP

**Open Source Contributor** – *MLH Fellowship* 06/2020 - present

- Selected as one of **144 fellows** to be part of the inaugural class from a pool of **20,000 applicants.**
- Worked on BentoML, an open-source framework for high-performance ML model serving.
- Built Debian-slim based Docker images for model server, **reducing base image size by ~60%** of its original.
- Implemented CLI command in Python to dockerize BentoML models.
- Created Helm chart to allow easy deployment of a YataiService backed with a Postgres instance to a Kubernetes cluster using devops best practices.

*Technologies:* Docker, PyTest, Python, Kubernetes, Helm

**Hootsuite** – *Highschool Software Development Intern* 07/2019 - 09/2019

- Proposed and implemented a proof of concept service mesh with Envoy and Istio to break Scala monolith service into Dockerized Go microservices. Deployed through Kubernetes and Jenkins. **Added to the company technical roadmap for 2023.**
- Defined and implemented SLOs in SumoLogic for **four key tier one services.**

*Technologies:* Scala, Go, SumoLogic, Kubernetes, Docker, Istio

## Personal Projects

**ctrl-v** - [ctrl-v.app](#) 05/2020

- Built a modern and open-source Pastebin clone, **servicing over 200+ pastes** and **3000+ paste views.**
- Pastes are stored in a MongoDB Atlas instance. Backend is a containerized Go service deployed on Google Cloud Run. Frontend is a React app deployed via Firebase Hosting.

*Technologies:* MongoDB, JavaScript, Go, React, Firebase Hosting, Docker

**reflect** - [getreflect.app](#) 11/2019

- Built and launched a digitally mindful website blocker with **700+ active users** and **2.2k total installs.**
- Created an AI classifier using an LSTM network with Python and Keras, reaching **~86% classification accuracy.** Model was ported to Tensorflow.js to run in the browser extension written in Typescript.

*Technologies:* TypeScript, Python, Keras, Tensorflow.js

## Awards

**Scholarships:** *Trek Excellence Scholarship 2020 (Top 5%), Dean of Science Scholarship 2019 (Top 1%), Weston Youth Innovation Award National Semifinalist 2019, Canada Wide Science Fair Silver Medal 2018, BCIC Young Innovator Scholarship 2018*

**Hackathons:** *DubHacks 2020 (Newsprint Track Finalist, Disney Collaboration and Storytelling Prize), TreeHacks 2020 (Microsoft Azure Hack for Good Prize), nwHacks 2018 (Top 30, SAP iXp - "Hey SAP, I Got Your Hack" Award)*