

**jacky zhao.**

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## education.

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

*Activities:* LHD Logistics Director at nwPlus, Developer at UBC Launchpad, Member of Varsity Outdoor Club

## experience.

**Hootsuite**, 05/2020 - 09/2020, Vancouver, Canada - *Software Development Intern*

- 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 in **React**.
- Added various end-to-end frontend tests with **Jest**, increasing code coverage by 18%.

**MLH Fellowship**, 06/2020 - 09/2020 - *Fellows Class 0*

- 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 to ~40% of its original.
- Implemented CLI command to **dockerize** BentoML models, receiving thousands of uses in the first month.
- Created **Helm** chart to allow easy deployment of a YataiService backed with a **Postgres** instance to a **Kubernetes** cluster using devops best practices.

**Hootsuite**, 07/2019 - 09/2019, Vancouver, Canada - *Highschool Software Development Intern*

- 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**. Accepted and added to the company technical roadmap for 2023.
- Defined and implemented SLOs in **SumoLogic** for several tier one services.

**Ann Lee Consulting**, 06/2019 - current, Remote - *Contract Software Engineer*

- Created a web app for student and file management to relieve overdependence on spreadsheets.
- Implemented backend in **Go** backed with a **MongoDB** Atlas instance for ease of deployment and future scalability. **Dockerized** and deployed on **AWS EC2**.
- Currently serving 52 users, receiving ~300 requests per day, saving ~20 hours of work per week

## personal projects.

**ctrl-v**, 05/2020 - *Independent Project* - [ctrl-v.app](https://ctrl-v.app)

- Built a modern and open-source Pastebin clone, serving over 100 pastes and 2k 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.

**reflect**, 11/2019 - *Independent Project* - [getreflect.app](https://getreflect.app)

- Built and launched a digitally mindful website blocker with 550 active users and 1.5k total installs.
- Trained an LSTM network in **Keras** on our closed-beta data, reaching ~86% classification accuracy. Model was ported to **Tensorflow.js** where it runs in-browser within the extension which is written in **Typescript**.

## awards.

**Scholarships & Awards:** BCIC Young Innovator Scholarship 2018, Dean of Science Scholarship 2019, Weston Youth Innovation Award National Semifinalist 2019, Canada Wide Science Fair Silver Medal 2018

**Hackathons:** TreeHacks 2020 (Microsoft Azure Champ Prize - Hack for Good), nwHacks 2018 (Top 30, SAP iXp - "Hey SAP, I Got Your Hack" Award, The Wolfram Award), MLH Fellowship Orientation Hackathon 2020 (Finalist)