

# Jacky Zhao

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## Education

University of British  
Columbia  
Expected Grad: 05/2023  
GPA: 4.0

### Bachelor of Science in Computer Science.

Received the Trek Excellence Scholarship 2020 (Top 5%) and the Dean of Science Scholarship in 2019 (Top 1%).

## Experience

### Software Engineering Intern

Hootsuite  
05/2020-09/2020  
07/2019-09/2019

Reduced mean time-to-acknowledge for alerts from hours to minutes by adding alerting and monitoring for key SLOs for **5** core tier one services.

Implemented a proof-of-concept service mesh to break Scala monolith service into multiple more maintainable microservices. Proposal was accepted to the company technical roadmap for 2023.

*Technologies: AWS, Grafana, Prometheus, Jenkins, Terraform, JavaScript, React, Jest, PHP, Scala, Go, SumoLogic, Docker, Envoy, Istio*

### Open Source Contributor

BentoML  
06/2020-present

Implemented CLI command to containerize BentoML machine learning models, reducing dependence on external tool workflows ([#847](#), [#884](#)).

Proposed ([#1540](#)), implemented, and tested a distributed application-level locking module to allow multiple concurrent operations on models ([#1541](#), [#1567](#)).

Reduced docker image size by **60%** to enable lighter deployments by building Debian-slim based Docker images for model server. ([#822](#))

Created Helm chart allowing users to deploy the model storage component to a Kubernetes cluster with a single command rather than needing to follow an entire guide. ([#945](#))

Accepted as one of **144** fellows to the first class of MLH Fellows from **20,000** applicants.

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

### HackCamp Logistics Director

nwPlus  
09/2019-present

Lead a team of 4 in hosting HackCamp, a beginner-focused virtual hackathon, attracting over **500+** attendees, **3.2k+** livestream viewers, and **\$1200** in donations to charities.

Co-lead the creation of a [self-learning resources guidebook](#) for tech beginners.

Co-lead the development of our [hackathon information portal](#) which handles announcements, schedule, and judging. Reached **200k+** interactions during HackCamp.

*Technologies: GitBook, Firebase, React, Github Actions*

## Projects

### ctrl-v

[github](#)  
[ctrl-v.app](#)

Created an open-source platform to safely and conveniently share code snippets and source code. Currently serving over **400+** pastes with an accumulated **12k+** paste views.

*Technologies: MongoDB, JavaScript, Go, React, Next.js, Vercel, Google Cloud Run, Docker*

### reflect

[github](#)  
[getreflect.app](#)

Built and launched a digitally mindful website blocker that prompts users to reflect before visiting distracting sites. Currently has **750+** active users, **3.1k+** installs, and a **4.93** star rating.

Created intent classification ML model which achieved **~86%** classification on our collected closed-beta data.

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

### readAR

[github](#)  
[devpost](#)

Built an AR app to help those with learning disabilities by adding context-dependent word definitions and images to text with ambiguous meaning.

Awarded: Microsoft Hack for Social Good Prize at Stanford's TreeHacks 2020.

*Technologies: PyTorch, Flask, Azure, Docker, Python*

### Legist

[github](#)  
[devpost](#)

Created a political literacy web platform that allows users view automatically summarize pieces of policy and legislation while still maintaining the key takeaways.

Awarded: Finalist at Waterloo's Hack the North 2020++ among over 3000+ participants.

*Technologies: React, Firebase, GraphQL, CockroachDB, Flask, Docker, BentoML, HuggingFace*