jacky zhao.

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education.

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

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**.
- Migrated hootsuite.com CMS deployment from **Jenkins** to **ArgoCD**.
- Increased accessibility on signup flow in React and added various end-to-end frontend tests with Jest.

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.
- Added core utility functions to CLI using Python and unit tested with Pytest.

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 down a Scala
 monolith service into Dockerized Go microservices. Deployed through Kubernetes and Jenkins.
- Defined and implemented SLOs in SumoLogic for several tier one services.

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

- Created student and admin site for student management to relieve overdependence on manual work.
- Implemented backend in Go for ease of deployment and future scalability. Frontend done using simple Go
 templates. Database deployed on Mongo Atlas. Backend dockerized and deployed on AWS EC2.

personal projects.

ctrl-v, 05/2020 - Independent Project - ctrl-v.app

- Built a modern, open-source Pastebin clone with LaTeX and Markdown rendering support.
- 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.

readAR, 02/2020 - TreeHacks 2020 - github.com/jackyzha0/treehacks2020-backend

- Created an AR app to help those with learning disabilities by overlaying hard to read text in a more dyslexic-friendly font, and adds context-dependent word definitions and images.
- Designed and trained a custom BERT model for word sense disambiguation with **PyTorch**, achieving a 76.6% F1% score on the test dataset (SOTA is 81.2%). Model is served via **Flask**.
- Built image processing pipeline using **Flask** and various **Azure** APIs (OCR, Text Analytics, Bing Search).

reflect, 11/2019 - Independent Project - getreflect.app

- Built and launched a digital mindfulness extension which asks users to reflect before visiting distracting sites. Currently maintaining 400 concurrent active users.
- 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)