

<u>j.zhao2k19@gmail.com</u> | 778.956.8798 | <u>linkedin.com/in/jackyzhao2019</u> | <u>github.com/jackyzha0</u> Passionate software developer building solutions to the world's problems. You can find more about me and my work on my personal website at <u>jzhao.xyz!</u>

## education & skills.

University of British Columbia, 2019 - 2023, B.Sc Candidate for Computer Science, Vancouver Skills: Python, Go, TypeScript, Scala, JavaScript, Envoy,, Keras, TensorFlow, Flask, SumoLogic, Mongo, SQL Tools: Jira, Confluence, Jenkins, Kubernetes, Docker, AWS, GCP, Azure, Git, Scrum Agile

## experience.

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.
- Implemented an internal endpoint with Scala and SQL to assist with data compliance requests.
- Defined SLOs in **SumoLogic** for the Event Bus, Core Authentication, and Social Communications 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.
- Initial implementation with **Pug**, **Javascript**, **Node**, **MongoDB**, and **Express**. Rewrote backend in **Go** to reduce technical debt and increase ease of deployment and future scalability.
- MongoDB instance deployed on Mongo Atlas. Dockerized Go backend deployed on AWS EC2.

## personal projects.

reflect, current work in progress - Independent Project - github.com/jackyzha0/reflect-nlp

- Building a digital wellbeing extension which asks users to reflect before visiting distracting sites.
- Trained an NLP model using self-collected survey data using **Keras**. Model API is served via **Flask** and deployed on **Heroku**. CI/CD pipeline done through GitHub webhooks and **CircleCI**.
- Actual extension built using Typescript. Working on creating a stats aggregation and data collection service using Go and Mongo.

Speech2Braille, 07/2017 - 05/2018 - Canada Wide Science Fair - github.com/jackyzha0/nsound git

- Created a wearable device to augment the hearing capabilities of the hearing impaired.
- Designed data pipeline with **Python** and **numpy** and trained end-to-end LSTM-CTC speech recognition model with **Tensorflow Python**, achieving 92% state-of-the-art word error rate on the TIMIT dataset.
- Created functioning prototype for a device built from an RPi to display tactile braille.

PacketBook, 01/2018 - nwHacks 2018 - github.com/jackyzha0/nwhacks2018

- Built to help the 2 billion people who are unbanked, PacketBook allows users to securely use banking utilities through text messages by utilising the Stellar Blockchain.
- Created backend with **Flask** in **Python** for managing encryption, call verification with **Twilio**, and storage in a **MongoDB** database and hosted on **Heroku**.

## awards.

**Scholarships:** BCIC Young Innovator Scholarship 2018, Dean of Science Scholarship 2019, Weston Youth Innovation Award National Semifinalist 2019

Hackathons: nwHacks 2018 (Top 30, SAP iXp - "Hey SAP, I Got Your Hack" Award, The Wolfram Award)

**Other:** Canada Wide Science Fair Silver Medal 2018, Greater Vancouver Regional Science Fair 2018 (Gold Medal, David Laugharne Award, In Ink Scientific Writing Award)