Jacky Zhao

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Education

University of British Columbia
09/2019-05/2023
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

Added alerting and monitoring for key SLOs for several tier one services, reducing mean time-to-acknowledge for alerts from hours to minutes.

Implemented a proof of concept service mesh to break Scala monolith service into microservices. Proposal was added to the company technical roadmap for 2023.

Added end-to-end frontend tests to paid and free signup flow with Jest, increasing code coverage by 18%.

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

Open Source Contributor

BentoML
06/2020-present

Implemented heavily-requested CLI command to containerize BentoML machine learning models.

Built Debian-slim based Docker images for model server, reducing image size down to just 40% of its original to allow for lighter deployments.

Created Helm chart to allow users to easily deploy the model storage component to a Kubernetes cluster.

Selected as one of 144 fellows to be part of the inaugural class of MLH Fellows fomr a pool of 20,000 applicants.

Technologies: Docker, PyTest, Python, Kubernetes, Helm

HackCamp Logistics Director

nwPlus
09/2019-present

Lead logistics for HackCamp, a beginner-focused virtual hackathon, attracting over 900+ registrations, 500+ attendees, 1.2k+ unique livestream viewers, and $1200 in donations to local BC charities.

Co-lead the creation of a publicly available self-learning resources guidebook for tech beginners.

Co-lead the development of our hackathon livesite portal which aims to be a central information hub for hackers to do judging, relay announcements, view the schedule, and see the schedule. Handled 200k+ interactions on the site on the day-of.

Technologies: GitBook, Firebase, React, Github Actions

Projects

ctrl-v

github
ctrl-v.app

An open-source and publicly usable platform to safely and conveniently share code snippets and source code. Currently serving over 200+ pastes with an accumulated 4k+ paste views.

Technologies: MongoDB, JavaScript, Go, React, Firebase Hosting, Google Cloud Run, Docker

reflect

github
getreflect.app

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 on Chrome store.

Intent classification is done using an LSTM network which achieved ~86% classification on our collected closed-beta data.

Technologies: TypeScript, Python, Keras, Tensorflow.js

readAR

github
ctrl-v.app

An AR app to help those with learning disabilities by overlaying hard to read text with a dyslexic-friendly font and adds context-dependent word definitions and images using a custom BERT model for word sense disambiguation. Won the Microsoft Hack for Social Good prize at TreeHacks.

Technologies: PyTorch, Flask, Azure, Docker, Python