Jacky Zhao

2021 Interact Fellow, MLH Fellowship Batch 0

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Education

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

Bachelor of Science in Computer Science

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

Experience

Garage SWE Intern
Microsoft
06/2021-09/2021

Built out third-party streaming apps, enabling non-technical content creators to livestream content using Microsoft Teams.

Abstracted common functionality between all four streaming apps by creating a streaming hook and error manager context with 98% test coverage.

Technologies: TypeScript, GraphQL, Jest, Teams SDK, Azure DevOps

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

Reduced mean time-to-acknowledge for alerts by a factor of **4x** 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, Terraform, JavaScript, React, Jest, Scala, Go, 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 for model server (#822).

Technologies: Docker, PyTest, Python, Kubernetes, Helm

Co-President
nwPlus
09/2019-present

Led and coordinated **7** subteams with a total of **40+** team members to run **3** of the largest hackathons in Western Canada.

Led logistics for 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, and the development of our hackathon information portal which handles announcements, schedule, and judging. Handled 350+ concurrent users during HackCamp.

Technologies: JavaScript, GoLang, GitBook, Firebase, React, Github Actions

Projects

Portal
github
producthunt

Created an open-source command-line tool for encrypted peer-to-peer file sharing. Currently has **800+** installations.

Technologies: React, TypeScript, Hypercore, xo, ava

ctrl-v
github
ctrl-v.app

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

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

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 (**Top 2%**).

Technologies: PyTorch, Flask, Azure, Docker, Python

Legist
github
devpost

Created a political literacy web platform that allows users view automagically 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: TypeScript, React, Firebase, GraphQL, CockroachDB, Flask, Docker, BentoML, HuggingFace