

# Jacky Zhao

[jzhao.xyz](mailto:jzhao.xyz) [j.zhao2k19@gmail.com](mailto:j.zhao2k19@gmail.com)  
[github.com/jackyzha0](https://github.com/jackyzha0) [linkedin.com/in/jackyzha0](https://linkedin.com/in/jackyzha0)

## Experience

### Verses

Council member  
and Technical Lead  
11/2021-present

Led engineering for [pluriverse.world](#) and [interdependence.online](#) artifacts, building technical infrastructure to support over **10,000+** signatures across both.

Developed an [open source package](#) for versioned permaweb document management on Arweave and a [GitHub action](#) to automatically persist documents to Arweave.

Currently doing independent research around data agency and local-first p2p applications.

*Technologies: Vercel, GitHub Actions, Node.js, TypeScript, Arweave*

### Microsoft

Garage SWE Intern  
06/2021-09/2021

Built out third-party streaming extensions, enabling non-technical content creators to livestream content using Microsoft Teams. [Shipped into Microsoft Teams as of 03/31/22.](#)

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

### Hootsuite

SWE Intern  
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 around **5** core tier one services.

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

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

### BentoML

Open Source  
Contributor  
06/2020-07/2021

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*

### nwPlus

Co-President  
09/2019-04/2022

Led and coordinated **7** subteams with a total of **48** team members to run **3** of the largest hackathons in Western Canada, reaching over **2000+** students.

Led logistics for HackCamp, a beginner-focused virtual hackathon, attracting over **500+** attendees, **3,200+** livestream viewers, and **\$1200** in donations to charities.

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

## Projects

### Quartz

[github](#) (frontend)  
[github](#) (scraper)

Website generator that allows users to host digital gardens for free. Built custom Markdown parser to enable full-text search, backlinks, local graph view, and link previews. Built a strong community with **1000+** stars on GitHub, **750+** forks, and **26** unique contributors. Forks average over **100,000+** total monthly active visitors.

*Technologies: GoLang, JavaScript, Hugo, GitHub Actions*

### 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*

### 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 to 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, Docker, Python*

## School

### University of British Columbia

Expected Grad: 12/2022  
GPA: 4.0

### Bachelor of Science in Computer Science, Minor in Philosophy

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