

Jacky Zhao

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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 greenfield research around tooling for local-first peer-to-peer 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.

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 open source community with **350+** stars on GitHub, **275+** forks, and **8** unique contributors. Forks average over **12,000+** 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%).