




Yifei Zhang

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SKILLS

- **Languages:** JavaScript, Ruby, Python, C++, C, Java, SQL, HTML, CSS
- **Tools/Frameworks:** Rails, Node.js, React, Redux, TypeScript, Docker, Jenkins, Azure, GCP, AWS, Terraform

EXPERIENCE

Persona Identities

Jan 2022 – Apr 2022

Software Engineering Intern – Workflows Team

San Francisco, USA

- Created *simulate* feature for workflows, which lets workflow creators verify correctness of their changes, by creating a simulated workflow run subclass with no side effects, and additional simulation infrastructure in **Rails**
- Gave users the ability to override workflow object data during simulated runs through **React** components written with **TypeScript** to test conditional logic of the workflow and view the simulated workflow run
- Reduced local unit test execution time by **70-80%** by re-writing build scripts to support arm64 architecture

Splunk

May 2021 – Aug 2021

Software Engineering Intern – Enterprise UI Platform Team

San Francisco (Remote), USA

- Improved initial load time of Splunk Search, the most viewed page in Splunk Enterprise (**160,000+ monthly users**) by **30-35%** by re-writing key network requests and reducing bundle sizes by **37%**
- Led initiative to track and improve performance of key components – leveraging Splunk's telemetry libraries to send customers' aggregated performance data – receiving intern of the month for project delivery

Altis Labs

Sep 2020 – Dec 2020

Software Engineering Intern – Core Engineering Team

Toronto (Remote), Canada

- Drove development of a platform for radiologists to evaluate and annotate tumours to make ML predictions on the efficacy of cancer treatments, with custom-built annotation tools to **automatically** measure and segment a lesion
- Designed additional **PostgreSQL** schemas and **Node.js** REST APIs to store patients' medical data

The Co-operators

Jan 2020 – Apr 2020

Dev Ops Software Engineering Intern – Infrastructure Team

Kitchener, Canada

- Automated infrastructure provisioning requests using **Terraform** scripts, cutting avg. response times by **63%**
- Introduced automated unit testing to CI/CD pipelines in **Jenkins** through **Terraform** generated test environments

Ontario Institute for Cancer Research

May 2019 – Aug 2019

Applications Developer Intern – Web Dev Team

Toronto, Canada

- Implemented a centralized logging system using the **Elastic** stack that parses and sends over 76000 log messages monthly from various **Node.js** APIs, and established automatic notifications for critical errors

PROJECTS

Flatten

May 2020 – Aug 2020

Engineering Lead

- Led development of flatten.ca, a non-profit that gathered crowdsourced COVID-19 data to aid public health bodies in [Montreal](#) and Somalia, receiving media coverage from [CTV](#), the [National Post](#), and [Global News](#)
- Oversaw team of 15 engineers and worked with multidisciplinary group to build a symptom reporting tool and interactive heatmap using **React**, **Redux**, **Node.js**, and **GCP services**, generating over **500,000 responses**

EDUCATION

University of Waterloo

Sep 2018 – May 2023 (Expected)

Bachelor of Software Engineering

- Term Dean's Honour List (2B), Term Distinction (3A, 3B)
- **Relevant Courses:** Operating Systems, Algorithms, Computer Networks, Concurrency, Software Architecture