

Victor Yu

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EDUCATION

University of Waterloo Software Engineering, Co-op

2016 – Present, Graduating 2021

SKILLS

Languages: C++, Go, Ruby, Python, JavaScript, SQL, HTML & CSS

Tools: Rails, Node.js, React, GraphQL, PostgreSQL, MongoDB, Git, Bash

WORK EXPERIENCE

Google, Software Engineering Intern

Sunnyvale, CA. May 2019 – Current

Borglet Team – The on-machine resource management daemon for Google's large-scale cluster management system

- Currently working on implementing memory migration for NUMA (Non-Uniform Memory Access) systems to improve CPU-to-memory locality for tasks, boosting task performance across Google
- Took charge of memory migration project by writing design documents which included a thorough analysis of cost and impact, as well as design choices and implementation details
- Technologies: C++, SQL

Universe / Ticketmaster, Full Stack Developer Intern

Toronto, ON. Sept – Dec 2018

Universe – A platform for people to discover and create events all over the world

- Revamped bulk-add attendees page utilizing React & GraphQL for improved performance and UX
- Implemented rate limiting to prevent API spam using Rack middleware for Rails
- Enhanced site functionality, including work with emails, internationalization, and financial data
- Technologies: Rails, React, Node.js, GraphQL, PostgreSQL, MongoDB

Shopify, Backend Developer Intern

Toronto, ON. Jan – Apr 2018

Shopify – An e-commerce platform trusted by over 600,000 businesses worldwide

- Developed a new concurrent webhook delivery service in Go, focusing on preventing data loss through a fast and reliable shutdown procedure and an offset management component for Kafka
- Deployed a webhook receiver web app written using Ruby on Rails with Google Cloud Platform
- Designed and shipped a Ruby bot to remind employees to update their Pagerduty notification settings by using the Pagerduty API and Slack integrations, reducing invalid behaviour by 75%
- Technologies: Go, Kafka, Rails

Firmwater, Full Stack Developer Intern

Toronto, ON. May – Aug 2017

Firmwater LMS – A web-based learning platform built for training companies

- Implemented a new video player using Video.js for more consistent and enhanced viewing across all media platforms, with a wrapper to track user progress
- Enabled course sequencing under SCORM standards, allowing clients to define prerequisite course content
- Technologies: Microsoft SQL Server, C#.NET

PROJECTS

 [Github.com/VictorHYu](https://github.com/VictorHYu)

Audio Visualizer

visualizer.vhyu.dev

- Extracted data from FFT histograms, waveforms, and volume of music using Web Audio API
- Enabled file uploading with a Node.js backend (with Express.js) and npm file system

Sofa Search

[Devpost](#)

- A machine learning web app in Python (Flask) that suggests sofas to users based on feedback ratings

SelectEngine – 1st place at University of Waterloo's EngHack

[Devpost](#)

- A utility chrome extension that allows users to quickly search highlighted text across various websites