

Ian Hu

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Skills

LANGUAGES

Python

Go

Objective-C

JavaScript

Java

Ruby

C++

GraphQL

FRAMEWORKS & LIBRARIES

iOS

React

Node

Tornado

Rails

ASP

gRPC

DATABASES

MongoDB

PostgreSQL

SQL Server

Redis

TOOLS

AWS

Docker

Git

Mercurial

Education

University of Waterloo

Software

Engineering 2020

91% · 3.91 CGPA

Dean's Honours List

Work Experience

Facebook

Software Engineering Intern · Facebook Connectivity

Jan. 2019 - Apr. 2019

Menlo Park, California

Python, Go, gRPC, Software-Defined Networking

- Implemented network service chaining on top of Open vSwitch for the opensource project, Magma, to allow dynamic service configurations from the cloud
- Designed an abstraction layer on top of OpenFlow constructs to simplify network service development and Open vSwitch programming
- Enabled policy enforcement (PCRF) service to program multiple flow tables to improve usage reporting and allow for scheduled flow deletion
- Architected a gateway status data model for monitoring and troubleshooting
- Developed a feature to detect and alert on stale configurations in the gateway

Google

Software Engineering Intern · Gmail

May 2018 - Aug. 2018

Waterloo, Ontario

Objective-C (iOS), Java, gRPC

- Designed and developed content insertion feature for Gmail add-ons in iOS Gmail; allowed users to insert HTML content into the email using third-party add-ons as they were composing
- Implemented caching involving both the mobile client and the Java client library to reduce redundant network requests while keeping the add-ons listing updated
- Migrated client logging library to allow add-on metadata logging

Wish

Software Engineering Intern

Sept. 2017 - Dec. 2017

San Francisco, California

Python (Tornado), JQuery, MongoDB

- Built and maintained API and webhook integrations with shipping companies and third-party providers that processed millions of shipping updates daily
- Added new metrics regarding tracking information to the data pipeline for more detailed alerts on delays and backlogging
- Developed internal tools for batch modification of tracking information and automatic troubleshooting of tracking problems

Remind

Software Engineering Intern

Jan. 2017 - Apr. 2017

San Francisco, California

Ruby (Rails), React, Go, PostgreSQL, Redis

- Integrated Appboy with the Ruby on Rails backend to track user events and trigger campaigns to send emails and push notifications
- Designed and developed a critical monitoring service in Ruby that sent metrics from Interana to Datadog for anomaly detection of funnel metrics
- Created fully tested React components using Redux and Apollo to display and modify family member information in the class member list

Ivy Global

Software Engineer

Feb. 2016 - Dec. 2016

Toronto, Ontario

ASP, Node, VBScript, JQuery, SQL Server

- Created a personalized study plan feature by analyzing over 7 million questions
- Built an online test-taking web application with an extensive permission system
- Developed a central login portal for all Ivy Global services utilizing OAuth 2.0

Awards

Canadian Computing Olympiad · **Bronze Medalist**

May 2015