

# Ian Hu

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## Skills

### LANGUAGES

Ruby

Python

JavaScript

Go

VBScript

C++

GraphQL

SQL

Java

OCaml

### FRAMEWORKS & LIBRARIES

Rails

Tornado

React

Node

Sass

ASP

Jekyll

### DATABASES

MongoDB

PostgreSQL

Redis

SQL Server

DynamoDB

### TOOLS

AWS

Docker

Git

Interana

## Education

### University of Waterloo

3A Software

Engineering

91% · 3.9 CGPA

Dean's Honours List

## Work Experience

### Wish

Software Engineering Intern

Sep 2017 - Dec 2017

San Francisco, California

*Python (Tornado), MongoDB, JQuery*

- Worked on the tracking update system which processed millions of orders daily
- Maintained third-party integrations involving Wish's external API and webhooks
- Improved the metrics pipeline to add new metrics regarding tracking information for more detailed alerting on delays and backlogging
- Developed internal tools for batch modification of tracking information from a CSV file and automated troubleshooting regarding tracking problems

### Remind

Software Engineering Intern

Jan 2017 - Apr 2017

San Francisco, California

*Ruby (Rails), React (Redux/Apollo), Go, Node, PostgreSQL, Redis, DynamoDB*

- Integrated Appboy with the Ruby on Rails backend, which tracked user events and triggered campaigns to send emails and push notifications
- Designed and implemented 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
- Assisted in the migration from REST API to GraphQL, such as writing resolvers for the Apollo GraphQL server and middleware for the Apollo Client library

### Ivy Global

Software Engineer

Feb 2016 - Dec 2016

Toronto, Ontario

*ASP, Node, VBScript, SQL Server, JQuery, CSS, Bootstrap, IIS*

- Created an automatic essay feedback tool using natural language processing, readability index studies, and the GloVe Word Vector project
- Developed 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

## Projects

### GoGoGo

Jul 2016 - Current

- An Online implementation of the board game Go, written in Go and React

### Scala Compiler

Sep 2016 - Dec 2016

- A tool written in Scala, which compiled a subset of Scala into MIPS

### Oniregnod Adventure

Nov 2014 - Jan 2015

- A 2D turn-based strategy game developed using Java and LWJGL

## Awards

Canadian Computing Olympiad · **Bronze Medalist**

May 2015

Canadian Computing Competition (Senior) · **Top 20**

Feb 2015

Canadian Computing Competition (Junior) · **First Place (Perfect Score)** Feb 2014