

# 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**  
Software

Engineering 2020

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 merchant platform, with a focus in tracking operations and external partner API
- Developed new features for the tracking lookup tool to provide automatic troubleshooting regarding late deliveries

### 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 creating a service for user deletion tasks with Go and DynamoDB
- Implemented backend features for student SMS signup flow in paid districts, which accounted for over 50% of the new users
- 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, Canada

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

- Created an automatic essay feedback tool using machine learning, Natural Language Processing, readability index studies, and the GloVe Word Vector project
- Implemented a personalized study plan feature for students by analyzing over 7 million question responses
- Designed, implemented, and maintained an online test-taking web application with an extensive permission system
- Prototyped and developed a central login system utilizing OAuth 2.0 which is used across all Ivy Global services

## 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