

# Ian Hu

✉ ianhu952@hotmail.com

🌐 ianhu.ca

☎ (647) 627-3087

in ianhuca

🔗 ian952

## Skills

### LANGUAGES

Python

Objective-C

JavaScript

Java

Ruby

C++

Go

VBScript

GraphQL

### FRAMEWORKS & LIBRARIES

Tornado

React

Node

Rails

Sass

ASP

### DATABASES

MongoDB

PostgreSQL

SQL Server

Redis

### TOOLS

AWS

Docker

Git

Mercurial

## Education

### University of Waterloo

3B Software

Engineering

92% · 3.92 CGPA

Dean's Honours List

## Work Experience

### Google

Software Engineering Intern

May 2018 - Aug. 2018

Waterloo, Ontario

*Objective-C, Java, Protocol Buffers*

- 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 up to date
- Migrated client logging library to allow add-on metadata logging

### Wish

Software Engineering Intern

Sept. 2017 - Dec. 2017

San Francisco, California

*Python (Tornado), MongoDB, JQuery*

- Built and maintained API and webhook integrations with shipping companies and third-party providers that are used to process 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 (Redux/Apollo), Go, Node, 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
- Assisted the GraphQL migration by writing query resolvers for the GraphQL server

### 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 machine learning, natural language processing, 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

### Software Defect Predictor

Mar. 2018 - Apr. 2018

- Used the WEKA machine learning library to predict software defect given a patch

### 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