

Ian Hu

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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 responsible for processing 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