

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 a new feature for the add-ons platform in the Gmail mobile app to allow content insertion using third-party add-ons during Email composition
- 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
- Wrote numerous design documents including add-on rendering, formatting content for cross-platform compatibility, and applying draft updates

Wish

Software Engineering Intern

Sept. 2017 - Dec. 2017
San Francisco, California

Python (Tornado), MongoDB, JQuery

- Worked on the shipping tracking system which processed millions of updates daily
- Maintained third-party integrations involving Wish's external API and webhooks
- Added new metrics regarding tracking information to the data pipeline 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 - April 2017
San Francisco, California

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

- 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 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

March 2018 - April 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