

Ian Hu

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Skills

LANGUAGES

Ruby

JavaScript

Go

VBScript

C++

GraphQL

SQL

Java

FRAMEWORKS & LIBRARIES

Rails

React

Node

Sass

ASP

Jekyll

DATABASES

PostgreSQL

Redis

DynamoDB

SQL Server

TOOLS

Interana

Docker

Git

IIS

Education

University of Waterloo

Software Engineering

90.7% · 3.9 CGPA

Dean's Honours List

Work Experience

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

- Implemented move validation algorithms
- Created unit tests using Go's Testing package

Scala Compiler

Sep 2016 - Dec 2016

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

- Implemented garbage collection, type checking, parsing, and closures

Oniregnod Adventure

Nov 2014 - Jan 2015

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

- Implemented an AI system using concepts from game theories
- Designed UML diagram using object-oriented design principles

Awards

Canadian Computing Olympiad · **Bronze Medalist**

May 2015

Invitational contest for the top 20 high school students in Canada

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

Feb 2015

Across all high school students in Canada

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

Across all high school students in Canada