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	May 2018 - Aug. 2018
Software Engineering Intern	Waterloo, Ontario

Objective-C, Java, Protocol Buffers

- Designed and developed a new feature for the add-ons platform in the Gmail iOS 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
- Migrated the client logging library to allow the logging of add-on metadata

Wish	Sept. 2017 - Dec. 2017
Software Engineering Intern	San Francisco, California

Python (Tornado), MongoDB, JQuery

- Worked on the shipping tracking system which processed millions of updates daily
- Built and maintained API and webhook integrations with shipping companies and third-party providers to reduce update latency and improve update quality
- 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	Jan. 2017 - Apr. 2017
Software Engineering Intern	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	Feb. 2016 - Dec. 2016
Software Engineer	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