Ian Hu

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Skills

LANGUAGES

Python
Go
Objective-C
C++
JavaScript
Java
Ruby

FRAMEWORKS & LIBRARIES

iOS
React
Node
TensorFlow
Rails
gRPC

DATABASES

MongoDB
PostgreSQL
SQL Server
Redis

TOOLS

AWS
Docker
Git
Mercurial

Education

University of Waterloo
Software Engineering
91% · 3.9 CGPA
Dean's Honours List
Expected Graduation:
June 2020

Work Experience

Google   Sept. 2019 - Dec. 2019
Software Engineering Intern · YouTube Ads   Mountain View, California
Python, TensorFlow

- Automated the model retraining setup process, reducing the time it takes to add a model to the retraining pipeline from weeks to hours
- Integrated the retraining pipeline with a new workflow management service to provide better failure handling and recovery

Facebook   Jan. 2019 - Apr. 2019
Software Engineering Intern · Facebook Connectivity   Menlo Park, California
Python, C++, Go, gRPC, Software-Defined Networking

- Implemented network service chaining on top of Open vSwitch for the open-source project, Magma, to allow dynamic service configurations from the cloud
- Improved usage reporting accuracy of the Policy Charging and Rules Function system by implementing asynchronous session termination and flow deletion
- Designed an abstraction layer on top of OpenFlow constructs to simplify network service development and provide additional validation

Google   May 2018 - Aug. 2018
Software Engineering Intern · Gmail   Waterloo, Ontario
Objective-C, Java, gRPC, iOS Development

- Designed and shipped content insertion feature for Gmail add-ons in iOS Gmail - allowing users to insert HTML content into the email 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 updated

Wish   Sept. 2017 - Dec. 2017
Software Engineering Intern   San Francisco, California
Python (Tornado), JQuery, *MongoDB*

- Built and maintained API and webhook integrations with shipping companies and third-party providers that processed millions of shipping updates daily
- Added new metrics regarding shipment 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   Jan. 2017 - Apr. 2017
Software Engineering Intern   San Francisco, California
Ruby (Rails), React, Go, 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 React components to display and modify family information of students

Ivy Global   Feb. 2016 - Dec. 2016
Software Engineer   Toronto, Ontario
ASP, Node, VBScript, JQuery, *SQL Server*

- Created a personalized study plan feature by analyzing over 7 million questions
- Developed a central login portal for all Ivy Global services utilizing OAuth 2.0

Awards

Canadian Computing Olympiad · **Bronze Medalist**   May 2015