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> employment

Apple Cupertino, CA

Safari Intern
Apr. 2018 to Aug. 2018

Developed exciting new features for the Safari application on MacOS and iOS.

Microsoft Seattle, WA

Software Engineering Intern
Sept. 2017 to Dec. 2017

- Backend developer on heavily requested file storage solution for Microsoft Dynamics 365 CRM to **lower storage costs by over 90%** and provide a **30x increase in storage capacity**
- Implemented **secure valet-key design pattern** to handle the scale of Fortune 500 companies
- Used **modular design** to allow for core code components to be easily augmented in future releases

Shopify Toronto, ON

Software Developer Intern
Jan. 2017 to Apr. 2017

- Contributed to the **backend** of Shopify's Sell On Amazon sales channel that allows for Shopify merchants to sell directly on Amazon.com
- **Reduced response time by over 70%** on key webpages by refactoring, optimizing database tables, and caching computationally expensive calculations to eliminate timed out requests
- Helped ship and **run zero-downtime schema migrations** on active tables with millions of rows of critical data

Wattpad Toronto, ON

iOS Developer Intern
May 2016 to Aug. 2016

- Brainstormed, developed, and shipped new features and improvements to Wattpad's iOS app
- Intern on Product Growth team, responsible for creating, implementing, and running **A/B experiments** to accelerate user growth through thoughtful and rapid iteration
- Increased monthly usage by over **10 million minutes on mobile**

> projects

Dropboxfs, an in-memory filesystem for Dropbox – bit.ly/dropbox_fs

- Designed and implemented an in-memory filesystem in userspace (**FUSE**) that connects to Dropbox written in **Go**
- Allows for users to access their Dropbox contents on demand **without requiring disk space**
- Supports all regular file operations and synchronizes changes across devices

Fastify – bit.ly/fastify

- Prize-winning Download Accelerator as a Service written in **Go** at QHacks
- Coordinated an **EC2** cluster to download then seed files with **BitTorrent** to achieve 4x typical download speeds for clients

Nfinite.space – bit.ly/nfinite

- Award-winning cloud storage service that stores files without the need for a datacenter by intelligently and dynamically sharding files to connected peers
- Solely responsible for developing our backend using **Go** and **CockroachDB** on **AWS**

NearbEYE – bit.ly/nearbeye

- Winning **augmented reality Swift** app to help explore the City of Waterloo with open data
- Implemented model layer and key algorithms for selecting relevant data based on user location and compass direction

Project Clay, a Twitter Activity Service – bit.ly/projectclay

- Recreated a personalized version of Twitter's "Activity" feature in **Go** with **MongoDB**
- Collected, analyzed, and stored millions of tweets in order to detect near real-time events using **AWS** infrastructure

> skills

LANGUAGES

Go
Ruby
Swift
Objective-C
C++
Python
SQL

TOOLS

Vim
Xcode
Instruments
Git
AWS
GDB
MySQL

> awards

Apple Inc, WWDC Scholarship

- Won international competition for a ticket to Apple's World Wide Developers Conference in **2014, 2015 and 2016**
- Developed an Objective-C & Swift application with creative and playful UI
- Judged and chosen by Apple out of thousands of applicants to receive scholarship

QHacks, Best Use of AWS Feb. 2017
Awarded for work on Fastify.

Hack The North, Best Use Of AWS Sept. 2016
Awarded for work on Nfinite.space.

CODEFest, 3rd Place Oct. 2015
Awarded for work on NearbEYE.

Tech Retreat Hackathon, 1st Place Aug. 2015
Awarded for work on MarketMesh.

> education

University of Waterloo

BSE Software Engineering 2020
President's Scholarship of Distinction, President's International Experience Award

> interests

Biking, Boarding, Hiking, Photography, Ping Pong, and Twitter