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# HARVEY XU

US Citizen

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## EXPERIENCE

### Apple Inc.

Engineering Intern  
Cupertino, CA  
Fall 2016

- Shipped a data analysis tool in Python that uses statistical methods to analyze Mac performance data, find regressions and display results.
- New tool is 12x faster, immediately put into production, and saves over 500 engineering man hours per year.

### Vidyard

Software Developer  
Kitchener, ON  
Winter 2016

- Worked on HTML5 player infrastructure through a VideoJS fork.
- Implemented core player functionality such as data persistence, the up-next display and chapter navigation for playlists.
- Designed UI elements on the video player's front-end navigation.

### BlackBerry

Software Developer  
Mississauga, ON  
Spring 2015

- Wrote 15% of the total C and Python security API code for a service controlling SSL/TLS on all BlackBerry 10 devices.
- Worked on a fork of OpenSSL to improve security updating.
- Verified Western government requirements for cryptography.

### Imagine Comms.

Software Developer  
Waterloo, ON  
Winter, Fall 2014

- Engineered a web dashboard with AngularJS to remotely manage video broadcast servers and display data.
- Developed TV server services for video desktop applications in C#.
- Prototyped a multi browser-window app using HTML5 Drag and Drop.

## PROJECTS

### Virtual MMO Goldfarming

- Generated five figure profits by running personally developed Pascal/Java digital image processing scripts via Simba Library/Java Reflection/OpenGL and handled all business operations.

### TypeRacer

- A Singleplayer and P2P Multiplayer type racing game via Google Play Services in Android.

### NPC Graph Analysis

- Collection of graph coordinates and analysis via k-means clustering in Python to determine optimal AFK locations for MMO NPC aggression.

## SKILLS

### Languages:

Java	Python	HTML
C#	C++	CSS
Javascript	Ruby	SQL

### Frameworks:

jQuery	.NET
AngularJS	Android
ASP.NET	VideoJS

### Other:

Git	Vim	Linux
Mercurial	GDB	Matlab
Sublime Text	JIRA	FPGAs

## EDUCATION

University of Waterloo - BAsC. Honours Computer Engineering, Expected Graduation: May 2018