Mack Duan

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Languages



Frameworks



Tools



WORK EXPERIENCE

Microsoft

· Added logging to Windows to track video memory allocations

· Used new logging to build tools to visualize video memory usage

Windows Performance Sep 2013 - Dec 2013

Mozilla

Worked on PDF.js, PDF viewer in Firefox written in JavaScript ^C

· Proposed and implemented performance enhancements, improving loading time by an order of magnitude

Mozilla Labs Jan 2013 - Apr 2013

· Added supported for PDF annotations

Wish.com

· Worked on user-facing features of Wish

· Set up and managed build system

· Got exposure to and worked on entire web-stack, gaining experience with many technologies used at startups

Web Developer May 2012 - Aug 2012

Facebook

Worked on user-visible changes to gather to gather location data from user content

 Proposed and implemented changes to gather location data from photos leading to a 5X increase in location data, and causing controversy on Reddit and Hacker News $^{\square}$

Software Engineer Sep 2011 - Dec 2011

· Worked on back-end changes to process and analyze gathered location data

University of Waterloo

· Built search engine interface to be used in research experiments

Added tracking code to log user interactions

Research Assistant 2 May 2011 - Aug 2011

Facebook

· Implemented system to support load balancing on Facebook's chat servers, significantly reducing number of needed servers

· Ran simulations to stress test load balancing system

Realtime Infrastructure

Jan 2011 - Apr 2011

Xtreme Labs

- Developed and maintained several BlackBerry applications for various clients
- · Maintained websites for clients

Mobile Developer May 2010 — Aug 2010

A PROJECTS

Github Side-by-Side Diffs 2

Nov 2013

- | Description of the control of the
- Built a Chrome extension that allows improves GitHub's diff viewer
- Supports viewing diffs side-by-side
- · Supports showing more context around changes

UW Flow [☑]

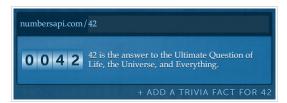
Aug 2012 - Present



- Helping build a service that allows University of Waterloo students see course reviews and ratings
- · Currently has over 4000 users and 40000 ratings

Numbers API [☑]

Apr 2011



- Helped build a service for other hackers that gets 20,000 requests per day
- Made the front page of Hacker News

JobMine Improved Jul 2010

• Built a service to provide a more user-friendly interface of searching for jobs on University of Waterloo's job board

Discussion Forum Sept 2009 — Dec 2009

· Built discussion forum for University of Waterloo's IEEE branch

EDUCATION

Bachelor of Software Engineering — University of Waterloo

Nov 2013 - Present

• Cumulative average of 92.0% 2

AWARDS AND ACCOMPLISHMENTS

• Dean's Honours List — University of Waterloo

Sep 2009 - Present

• President's Scholarship of Distinction — University of Waterloo

Sep 2009

ullet Second highest average in school district $^{\ \square}$ — Ottawa-Carleton District School Board

July 2009