MACK DUAN

ு github.com/mduan □



Languages



Frameworks



Tools



WORK EXPERIENCE

Microsoft

- · Analyzed and debugged video memory allocations in Windows
- Built new tools to visualize video memory usage from both application/OS-centric perspectives

Windows Performance Sep 2013 — Dec 2013

Mozilla

- Worked on PDF.js, PDF viewer in Firefox written in JavaScript 2
- · Proposed and implemented performance enhancements, improving loading time by an order of magnitude
- Jan 2013 Apr 2013

Mozilla Labs

· 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 2
- 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 6 May 2011 - Aug 2011

Facebook

Implemented system to support load balancing on Facebook's chat servers, significantly

Realtime Infrastructure

· Ran simulations to stress test load balancing system

Xtreme Labs

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

Mobile Developer May 2010 — Aug 2010



Nov 2013



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



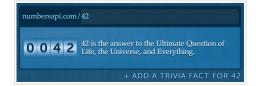
Aug 2012 - Present



- 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



Bachelor of Software Engineering — University of Waterloo

Nov 2013 — Present

Cumulative average of 92.0% [□]

AWARDS AND ACCOMPLISHMENTS

• Dean's Honours List — University of Waterloo

Sep 2009 - Present

• President's Scholarship of Distinction — University of Waterloo

Sep 2009

• Second highest average in school district [☑] — Ottawa-Carleton District School Board

July 2009