5/25/2019 Resume (Mack Duan)

MACK DUAN

mduan.com

₲ github.com/mduan





WORK EXPERIENCE

Mixpanel • Software Engineer – Product

Jul 2016 - Present

- Worked on the product features and infrastructural changes for Mixpanel's message sending capabilities
- Built out product features for the ML team including Signal and Smart Hub
- · Built various user-facing features for the Insights and Cohorts reports
- Skills: Mac OS X, Vim, Git, IntelliJ, HTML5, CSS3, JavaScript, Django, Webpack, React.js

🄰 Twitter • Software Engineer – Web Client

Jul 2014 - Dec 2015

- · Built the redesign of Twitter search UI
- · Built component for showing user recommendations in the home timeline
- · Built component for showing related tweets on permalink pages
- · Built custom search experience for NFL Superbowl
- Skills: Mac OS X, Vim, Git, IntelliJ, Scala, HTML5, CSS3, JavaScript, Flight.js, mustache

Microsoft • Software Engineer Intern – Windows Performance

Sep 2013 — Dec 2013

- Analyzed video memory allocations in Windows to enhance performance
- · Built new tools to visualize video memory usage from both application/OS-centric perspectives
- Skills: Windows, Visual Studio, C, C++, C#

🥑 Mozilla • Software Engineeer Intern – Mozilla Labs

Jan 2013 — Apr 2013

- · Worked on PDF.js, open-source PDF viewer in Firefox written in JavaScript
- Proposed and implemented performance enhancements, improving loading time by an order of magnitude (https://air.mozilla.org/intern-pdfjs/)
- · Added support for PDF annotations
- Github: https://github.com/mozilla/pdf.js/commits?author=mduan
- Skills: Mac OS X, Vim, Zsh, Git, HTML5, CSS3, JavaScript

Facebook · Software Engineer Intern – Location Tagging

Sep 2011 - Dec 2011

- 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 (https://news.ycombinator.com/item?id=3377018)
- · Built infrastructure to process and analyze gathered location data
- · Built features to expose new location data to users
- · Skills: Mac OS X, Vim, Zsh, Git, HTML5, CSS3, JavaScript, PHP, MySQL, Hive

localhost:8000/resume.html

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\triangle Side Projects

Real-time Chess (http://rts-chess.mduan.com)

Dec 2015 - Apr 2016



- · Built real-time (i.e. not turn-based) variant of chess
- Supports playing computer with various difficulty levels
- Supports playing people over the internet
- Used heuristics to deal with latency and synchronization issues
- · Github: https://github.com/mduan/rts-chess
- Skills: Mac OS X, Vim, Zsh, Git, HTML5, CSS3, JavaScript, Meteor, Semantic UI, Less

Photo Map (http://mduan.com/photos.html)



Oct 2015

Apr 2012

- Built web app for fetching my geo-tagged Google Photos and showing them
- · Various filters such as by album, time range, and location
- Github: https://github.com/mduan/mduan.com/compare/bf81aa1...00daf31
- Skills: Mac OS X, Vim, Zsh, Git, HTML5, CSS3, JavaScript, Leaflet.js, IndexedDB, Bootstrap

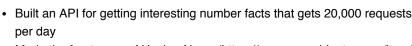
Aug 2012 — Apr 2014

- · Co-founded a website that lets university students review and plan courses
- Currently has 9,000 users, 80,000 ratings, and 400,000 course searches
- Github: https://github.com/UWFlow/rmc/commits?author=mduan
- · Skills: Mac OS X, Vim, Zsh, Git, AWS, HTML5, CSS3, JavaScript, Sass, Bootstrap, Require.js, Backbone.js, PhantomJS, Python, Flask, MongoDB, mongoengine, Redis

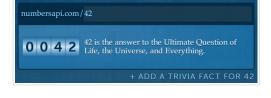
UW Flow (https://uwflow.com/demo)



Numbers API (http://numbersapi.com)



- Made the front page of Hacker News (https://news.ycombinator.com/item?
- Github: https://github.com/mduan/numbers_api/commits?author=mduan
- Skills: Ubuntu, Vim, Zsh, Git, AWS, HTML5, CSS3, JavaScript, Bootstrap, Require.js, Node.js



EDUCATION

Bachelor of Software Engineering • University of Waterloo

· Cumulative average of 92.0%

Sep 2009 — Apr 2014

Awards and Accomplishments

With Distinction - Dean's Honours List · University of Waterloo

Sep 2009 - Apr 2014

President's Scholarship of Distinction • University of Waterloo

Sep 2009 Jul 2009

Second highest average in school district - 98.8% • Ottawa-Carleton District School Board

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