

Ji Zhang

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Portfolio: <http://alexzhangji.github.io/> GitHub: <https://github.com/AlexZhangji>

EDUCATION

University of Southern California, Los Angeles, CA

May 2019

Master of Science, Data Informatics

Bachelor of Science, Computer Science

Major GPA 3.74

WORK EXPERIENCE

University of Southern California, Los Angeles, CA

Mar 2017 - July 2017

Research Assistant

- Scraping thousands of life science journals on US National Library of Medicine for list of drugs and FDA advisor using Python, and evaluate publication's impact with Journal Citation Reports API.
- Data wrangling FDA advisor meeting documents and scraped data with multiple sources from FDA OpenData, check if advisor's financial ties with pharmaceutical companies affects approval decision.

Docket Calendar, Los Angeles, CA

Summer 2016

Full Stack Engineer Intern

- Created new features includes comments, profiles, emoji post, shared class system and more for backend and frontend using AngularJS and PHP/Laravel.
- Refactored and optimized backend for existing event, task, calendar view, update mechanism and landing page. Reduced application initial loading time by 27 percent.
- Design and implemented interactive user data analysis and visualization portal with MySQL and HighChartsJS.

ZTE Corporation, Chengdu, China

Summer 2015

Web Developer Intern

- Prototyped a WeChat web application/chatbot in PHP, created and integrated voice and song recognition, location based recommendation, QR code login and various other functions and detailed documents.
- Designed and implemented complementary frontend for WeChat Bot in HTML/JavaScript.

PROJECTS EXPERIENCE AT USC

Senior Capstone Project: EMR System with Healthcare Data Analysis

Aug 2016 - Dec 2016

Lead Developer and Designer – Team Project

- Designed and implemented core medical record display page and data analysis and visualization portals for medical record data from ground up (both backend and frontend) Collaborated with data scientists and public health experts from Kaspect and Global Brigades.
- Researched to refactor and extend OpenEMR with a responsive and intuitive design and streamlined functionalities.

Web Crawler with NLP and Data Visualization In Python

Nov 2015 - Dec 2015

Developer – Independent Project

- Developed a web crawler extracts and cleans info in any website, customized for Reddit and Twitter.
- Integrated crawler with NLP and generate word cloud visualization for any sites or files for English and Chinese.
- Extended crawler and made a Node/EmberJS version of Twitter data sentiment analysis (AFINN-based) in Nov 2016.

Android Note Taking App with OCR and Cloud Synchronization

Nov 2015 - Dec 2015

Developer and Designer – Independent Project

- Created a cloud note taking App with Microsoft's artificial intelligence service's OCR to save text from photos.
- Utilized Parse API, created a complete account system and notes synchronization.
- Implemented an experimental video background with material design UI.

TECHNICAL SKILLS

Programming Languages: Python, Java, JavaScript, C++, PHP, Node, HTML/CSS.

Applications: MySQL, Sqlite, Jira, Git, Unreal Engine, Photoshop, Premier.

Operating Systems/Platform: Windows, Linux(Ubuntu/CentOS), Android, AWS, Firebase.

Frameworks/Libraries: Matplotlib/Seaborn, AngularJS, HighCharts, EmberJS, Flask, Bootstrap.

SPECIALIZED COURSEWORK

USC: Machine Learning, Data Management, Web Development, User Experience Design, Android Development, Game Programming.

Coursera/Udacity: Deep Learning, Data Science in Python, Learning How to Learn.