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 to July 2017**
Research Assistant
- Scarping thousands of publications in life science journals listed on Pubmed for list of drugs and FDA advisor using Python, map data to desired format and evaluating publication's impact with Journal Citation Reports API.
- Data wrangling FDA advisor meeting documents and scarped data with multiple sources from FDA OpenData, check if advisor's financial ties with pharmaceutical companies affects decision and find attributes of the drugs get FDA approval.

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 existing event, task, calendar view, backend 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 pages for WeChat Bot in HTML/JavaScript.

PROJECTS EXPERIENCE IN USC

Senior Capstone Project: EMR System with Healthcare Data Analysis   **Aug 2016 to Dec 2016**
Lead Developer and Designer – Team Project
- Collaborated with data scientists and public health experts from Kaspect and Global Brigades, 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).
- 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 to 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 to 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, implemented 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, InVision.
Operating Systems/Platform: Windows, Server side Linux(Ubuntu/CentOS), AWS, Android.
Frameworks/Libraries: Matplotlib/Seaborn, AngularJS, HighCharts, EmberJS, Flask, Bootstrap.

SPECIALIZED COURSEWORK

USC: Machine Learning, Web Development, Design for User Experience, Game Programming, Android Development.
Coursera/Udacity: Introduction to Data Science in Python, Learning How to Learn.