Ji Zhang

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

(I meant to make this longer to have more information.)

OBJECTIVE

Applying for admission into Master of Science in Computer Science or Data Science program.

EDUCATION

University of Southern California, Los Angeles, CA   **May 2017**
Bachelor of Science, Computer Science   **Major GPA 3.82**

WORK EXPERIENCE

Docket Calendar, Los Angeles, U.S   **Summer 2016**
Full Stack Engineer Intern
- Developed 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 loading time by 40 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/Bot in PHP, created and integrated voice and song recognition, location based weather forecast, QR code login and various other functions.
- Designed and implemented the complementary frontend pages for the WeChat Bot in HTML/JavaScript with Bootstrap.

SCHOOL AND PERSONAL PROJECTS

Senior Capstone Project: EMR System with Healthcare Data Analysis   **Aug 2016 to Dec 2016**
Lead Developer and Designer
- Researched to refactor and extend a selected open source EMR system with responsive and intuitive design and streamlined functionalities.
- Worked with the data scientists and public health experts from Kaspect and Global Brigades, designed and implemented data analysis and visualization portals for patient & community medical record data from ground up (both the backend and frontend).

Web Crawler with NLP and Data Visualization In Python   **Nov 2015 to Present**
Independent
- Developed a web crawler that extracts and cleans info in any website, customized for Reddit and Twitter.
- Integrated crawler with Natural Language Processing and generate word cloud visualization for any sites or files for English and Chinese.
- Made a Node.js version of Twitter data sentiment analysis API (AFINN-based) and extended the crawler in Nov 2016.

Android Note Taking App with Cloud Synchronization and OCR   **Nov 2015 to Dec 2015**
Independent
- Utilized Parse API, has a complete account system and notes synchronization.
- Integrated from Microsoft's artificial intelligence service, provide optical character recognition function that reads and stores text from photos.
- Material design look and feel, implemented signature elements like navigation drawer, floating action button and an experimental video background.

3D Multiplayer Spaceship Shooting Game In C++ With Unreal Engine   **Feb 2015 to May 2015**
Developer and Designer
- Developed 3 weapons, 4 special abilities, and various particle effects.
- Implemented map elements and game UI. Created video trailer and poster for this game.

2D Sprite Based Multiplayer Platformer Game In Java   **Nov 2014 to Dec 2014**
Engine Developer and Designer
- Integrated and greatly extended a 2D sprite game engine for Multiplayer Platformer.
- Designed and implemented the gameplay, map elements, user interface and sound effects.

TECHNICAL SKILLS

Programming Languages: Java, Python, JavaScript, C++, PHP, MySQL, Node, HTML/CSS, MIPS
Applications: Jira(Scrum), Git, Unreal Engine, MARS, Photoshop, Premier, Balsamiq
Operating Systems/Platform: Windows, Server side Linux (Ubuntu), AWS, Android

RELATED COURSEWORK

Math: Calculus II, Calculus III, Linear Algebra and Differential Equations, Probability Theory

CS: Data Structures and Object Oriented Design, Discrete Methods in Computer Science, Algorithms and Theory of Computing, Software Development, Computer Architecture, Design and Construction of Large Software Systems

Others: Web Application Development, Game Programming, Android Development, Video and Multimedia Production, Design for User Experience

MOOC: Machine Learning, Introduction to Data Science in Python, Learning how to learn

INTERESTS AND ACTIVITIES

Translation Enthusiast: I have translated, subtitled and published various videos and articles on Bilibli and Tieba (Chinese equivalent to YouTube and Reddit). Videos achieved more than five hundred thousand (500,000) views and more than 10 articles post are recommended by forum Admins.

Zhihu Contributor: I have been a regular contributor to the Chinese equivalent of Quora: Zhihu.com. My answers in total have been endorsed more than 4000 times and favorited by more than 5000 times. My answer about search engine was include in editor's choice.

Online Encyclopedia Contributor: Regular editor for the Chinese version of Wikipedia (Baidu Baike), have contributed 2 "sophisticated" edition (ranked by the system). Have been donating to Wikipedia yearly since high school.