

Ji Zhang

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Portfolio: <http://alexzhangji.github.io/>

GitHub: <https://github.com/AlexZhangji>

EDUCATION

University of Southern California, Los Angeles, CA

Bachelor of Science, Computer Science

May 2017

Major GPA 3.74

SPECIALIZED COURSEWORK

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

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

USC PROJECTS EXPERIENCE

Senior Capstone Project: EMR System with Healthcare Data Analysis

Aug 2016 to Dec 2016

Lead Developer and Designer

- Collaborated with the data scientists and public health experts from Kaspect and Global Brigades, designed and implemented data analysis and visualization portals for the medical record data from ground up (both the backend and frontend).
- Researched to refactor and extend a selected open source EMR system with 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 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.
- Extended the crawler and made a Node.js version of Twitter data sentiment analysis (AFINN-based) API in Nov 2016.

Android Note Taking App with OCR and Cloud Synchronization

Nov 2015 to Dec 2015

Developer and Designer – Independent Project

- Created the cloud note taking App with Microsoft's artificial intelligence service, provide optical character recognition function that reads and stores text from photos.
- Utilized Parse API, implemented a complete account system and notes synchronization.
- Implemented UI with material design look and feel and an experimental video background.

3D Multiplayer Spaceship Shooting Game In C++ With Unreal Engine

Feb 2015 to May 2015

Developer and Designer

- Developed and designed various projectile weapons, 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 game engine, created a map editor and various game mechanism.
- Designed and implemented the gameplay, map elements, user interface and sound effects.

WORK EXPERIENCE

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/Bot in PHP, created and integrated voice and song recognition, location based weather forecast, QR code login and various other functions and detailed documents.
- Designed and implemented the complementary frontend pages for the WeChat Bot in HTML/JavaScript.

TECHNICAL SKILLS

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

Applications: MySQL, Sqlite, Jira(Scrum), Git, Unreal Engine, MARS, Photoshop, Premier, InVision.

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

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

INTERESTS AND ACTIVITIES

Translation Enthusiast: Have been translating, subtitling and publishing various videos and articles on Bilibili 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: Contributing regularly 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 and information collecting was include in editor's choice.

Online Encyclopedia Contributor: Have been editing the Chinese version of Wikipedia (Baidu Baike) regularly, contributed 2 "sophisticated" editions (ranked by the system).