Xiaohan ZHU

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EDUCATION

Zhejiang University, *Hangzhou, China* **Sep 2015 – Present**
Bachelor of Agricultural Science, Expected Jun 2019
GPA: **3.95/4.0** Ranking: **1/33**

Queensland University of Technology, *Brisbane, Australia* **Feb 2018 – Jun 2018**
Exchange Student, Interaction Design
GPA: **6.667/7.0**

EXPERIENCE

State key lab of Computer-Aided Design & Computer Graphics (CAD&CG) **Jun 2018 – Present**
Research Assistant (Advisor: Prof. Wei Chen) *Zhejiang University, Hangzhou, China*

- Implemented the RSATree data structure which hierarchically approximates the aggregated values of data
- Designed and implemented a web-based visual query system that supports progressive visual specification, along with a data preprocessor based on the **C++ language** which generates the RSATree data structure

Zhejiang University International Summer School on Visual Analytics **Jul 2018 – Aug 2018**
Organizer, Participant *Zhejiang University, Hangzhou, China*

- Organized the summer school with 12 lecturers and more than 150 participants
- Participated in the lectures and tutorials of advanced techniques for big data visualization and visual analytics

PROJECTS

TangPoet – data visualization of Chinese female poets **Jun 2018 – Sep 2018**
Project Manager, Front-end Developer, Designer *State key lab of CAD&CG, Zhejiang University*

- **Published** by Xinhua Net – Chinese most significant press and received more than 100,000 views
- Implemented a responsive and adaptive interactive web system visualizing data using **React.js** and **D3.js**
- Resolved module dependency, version control and system deployment with **Webpack** and **Git**

ReadyPlayerOne – an independently developed creative game **Mar 2018 – Jun 2018**
Software Engineer, Interaction Designer (Advisor: Dr. Jared Donovan) *Queensland University of Technology*

- Utilized **UML**, especially sequential and class diagrams during system design
- Adopted different OOP design principles and algorithms in **Java** and **Processing**
- Maintained readability of the project following Google Java Style Guide

TextEditor – an auto-correct text editor with multiple functions **Apr 2018 – May 2018**
Software Engineer *University of California San Diego, Coursera*

- Worked with Strings and Regular Expressions in **Java** to generate the Flesch Readability Score of user input
- Utilized Linked List and Tries for Markov Chain auto-complete text and Hash Map for calculating edit distance

EarthquakeMap – visualization of real-time worldwide earthquakes **Mar 2018 – Apr 2018**
Software Engineer *University of California San Diego, Coursera*

- Searched and sorted data of earthquakes and visualized their attributes using UnfoldingMaps **Java** library
- Implemented events and buttons responding to user interactions in GUI application

GraphMap – a GUI application finding the shortest path between source and sink **Feb 2018 – Mar 2018**
Software Engineer *University of California San Diego, Coursera*

- Created a class for map search engine and implemented weighed graph in **Java** to find the shortest path
- Used depth-first search and breadth-first search algorithms to generate the best route on a map

AWARDS

China National Scholarship *(Top 2%)* **Sep 2017**
Zhejiang Provincial Government Scholarship *(Top 5%)* **Oct 2016**
Zhejiang University First Prize Scholarship *(Top 8%, Twice)* **Sep 2016, Sep 2017**

CERTIFICATES

Mathematics

- Mathematics for Machine Learning: Linear Algebra (view) *Imperial College London, Coursera*
- Combinatorics and Probability (view) *University of California San Diego, Coursera*
- Introduction to Graph Theory (view) *University of California San Diego, Coursera*

Computer Science

- Programming Fundamentals in C (view) *Duke University, Coursera*
- Writing, Running, and Fixing Code in C (view) *Duke University, Coursera*
- Object Oriented Programming in Java (view) *University of California San Diego, Coursera*
- Intermediate C++ (view) *Microsoft, edX*
- Advanced C++ (view) *Microsoft, edX*
- Data Structures and Performance (view) *University of California San Diego, Coursera*
- Advanced Data Structures in Java (view) *University of California San Diego, Coursera*
- Social Computing (view) *University of California San Diego, Coursera*
- Deigning, Running, and Analyzing Experiments in R (view) *University of California San Diego, Coursera*
- Introduction to Operating Systems (*No Certificate Provided*, view course) *Georgia Tech CS 8803, Udacity*

Interaction Design

- Human-Centered Design: An Introduction (view) *University of California San Diego, Coursera*
- Information Design (view) *University of California San Diego, Coursera*
- Input and Interaction (view) *University of California San Diego, Coursera*
- User Experience: Research & Prototyping (view) *University of California San Diego, Coursera*
- Design Principles: An Introduction (view) *University of California San Diego, Coursera*

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