

Qiaowen YANG

3rd Year Undergraduate Student of Computer Science

+86 180 1859 7902 @ 17307130294@fudan.edu.cn github.com/QiaowenYoung 1433 Cailun Rd, Shanghai, China

EDUCATION

- 2017.09 - present **Fudan University, Shanghai, China**
(Coming) B.S. in Computer Science
Overall GPA : 3.61/4.0, Major GPA : 3.72/4.0, Ranking : 15/89
- 2019.09 - 2019.12 **University of California, Santa Cruz, CA, US**
Exchange student in Computer Science
Overall GPA : 4.0/4.0, Major GPA : 4.0/4.0

PROJECTS

3D FOREST 2019.09 - 2019.12

<https://github.com/QiaowenYoung/ComputerGraphics>

Course project for UCSC's Computer Graphics course.

- > Ranked top 2 in class
- > Implemented a 3D renderer using WebGL from scratch
- > Using fractal rules to generate vivid 3D tree structure, and then render it on HTML canvas
- > Dynamic view port is supported using linear transformation, meaning the user could navigate freely in the scene
- > A terrain background is also enabled, together with fine-grained interactions with the user

WebGL JavaScript HTML CSS

IMPROVEMENT ON POSTGRESQL 2019.06

https://github.com/QiaowenYoung/database_pj

Course project for Fudan's Introduction to Database course.

- > Worked with another classmate
- > Used dynamic design to implement levenshtein distance algorithm on similarity query
- > Improve the efficiency of levenshtein to 460%
- > Implemented jaccard index similarity and tested several different improvements based on hash algorithm and q-gram

PostgreSQL C

INFORMATION AND VISUALIZATION PLATFORM FOR COVID19 2020.04

<https://github.com/FDU-SW20-6A/Frontend>

Course project for Fudan's Software Engineering course.

- > Used Echarts to visualize cases on map and in charts
- > Provided China and International information, including countries in which the circumstances are severe
- > Used Gaode Map's API and enabled users to search cases around their community
- > Collected news from official media, smashed rumors and provided donation channels
- > Currently working on building a forum where people can seek or offer help

Antd Pro React JavaScript HTML CSS Python

INTERSHIPS

Jan. 2019 **ByteDance, AI LAB, Computer Vision, Shanghai, China**

Now Advisor : Chen Mao

- > Helped set up and maintain a model auto iteration platform for computer vision
- > Fixed bugs and wrote templates on frontend using React and Ant Design
- > Fullfilled backend functions and added Restful API for frontend to call

JavaScript Python React Ant Design

RESEARCH EXPERIENCE

July 2019	Undergraduate Research, DATALOGY, Fudan University, Shanghai, China
Aug. 2019	Advisor : Dr. Kai Zhang <ul style="list-style-type: none">> Embedded RDMA into Alchemist, an HPC interface for data analysis platform> Set up Spark and MPI environment separately on two hosts which can run RDMA> Modified the program to enable the platform to be compatible with RDMA and ran tests over it

RDMA Alchemist

COMPETENCES

Programming Languages	C/C++, Python, JavaScript, CSS, HTML, SQL, MATLAB
Frameworks	Django, WebGL, React
Language	Native in Mandarin Chinese, Advanced in English(TOEFL 105)
Selective Courses	Programming(A-), Object Oriented Programming(A-), Data Structure(A-), Introduction to Computer System(A), Introduction to Computer Graphics(A), Introduction to Computer Networks(A)

HONORS AND AWARDS

2018.09	First Class Scholarship for Outstanding Students, 5%, Fudan University
2018.10	Outstanding Students Title, 10%, Fudan University
2019.09	Third Class Scholarship for Outstanding Students, Fudan University
2019.04	Successfully Participant Award, Mathematical Contest In Modeling