

Longwen Zhang

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EDUCATION

ShanghaiTech University, Shanghai
Bachelor, Computer Science and Technology
School of Information Science and Technology

September 2018 - Present
GPA 3.86/4, major GPA 4/4

WORKING EXPERIENCE

Multi-disciplinary Artificial Reality Studio (MARS), ShanghaiTech
Partner

2020 - Present

- Developer of *Light Down* and *Domilo Lecture*

GeekPie, ShanghaiTech
Vice president

2019 - Present

- Developer of open source OJ, PIEGON
- Participated in Operation & Maintenance Department

ACM Club, ShanghaiTech
President

2019 - Present

- Organize training and contests

PROJECTS

Light Down

June 2020

An efficient algorithm with GUI using *One Light At a Time* (OLAT) data to render realistic-looking human faces under any environment maps. The OLAT data is captured to record the reflection field of a human face, which makes it huge. This algorithm do interpolation, warp and weighted superposition on OLAT data efficiently.

Demo link: <https://youtu.be/21Zv9uCkZEc>

Domilo Lecture

March 2020

A multi-view live system using high-frequency audio signals to ensure the synchronization between streams. The streams could be pushed by smartphones and the server will manipulate and merge these streams.

GeekPie Online Judge

September 2019

An online judge for courses, using *gitlab* for program submission. It has advantages on handling project-like Homeworks which contain more than one file comparing to the traditional online judges. It will be open-source soon.

Website: <https://oj.geekpie.club>

TEACHING EXPERIENCE

Algorithms and Data Structures (CS101), ShanghaiTech
Teaching assistant

Fall 2020

- Operation and maintenance of online judge
- Assign homework and conduct discussions
- Design algorithm programming homework
- 2020 outstanding teaching assistant

Introduction to Information Science and Technology (SI100), ShanghaiTech
Teaching assistant

Spring 2020

- Assign homework and conduct discussions

ACHIEVEMENTS

2019-2020 ShanghaiTech comprehensive evaluation · First place	<i>December 2020</i>
The 2020 China Collegiate Programming Contest Mianyang Site · Silver Medal	<i>November 2020</i>
Tsinghua's 24th Intelligent Agent Competition · Final Eight	<i>May 2020</i>
2018-2019 ShanghaiTech comprehensive evaluation · First place	<i>December 2019</i>
The 44th International Collegiate Programming Contest Shanghai Site · Silver Medal	<i>November 2019</i>
The 44th International Collegiate Programming Contest Yinchuan Site · Silver Medal	<i>October 2019</i>
Tsinghua's 23rd Intelligent Agent Competition · Final Eight	<i>May 2019</i>

TECHNICAL STRENGTHS

Proficiency in programming language · Build network with Pytorch with no difficulty. · Understanding of C++ in competition level.	<i>C++, Python</i>
Skilled in algorithms and data structures Good knowledge of compiler and operating system	