

## Experience & Projects

### High School Student Union Tech Department Leader – 10.2015 - 7.2017

- Build websites and backend systems for student union and reduced the use of paper.
- Develop tools used for school activities (annual new year gala) making stage control digitised.
- Lead 10 freshers as the Tech team and co-op with school's TV crew on livestream and stage control.

#### Student Union Voting, Society and Volunteering Group Selection System

- Use Javascript (Express.JS) and MongoDB to create a website that allows students to sign-in, manage their votes, society and volunteering group selections and check their attendance of events.
- System meets the high concurrency performance requirements that the previous system didn't. School server has low specifications (Xeon E5-2620 with 3.86 GiB RAM) with roughly 1,200 students voting or selecting societies simultaneously during peak hours.

#### High School Live Comment System on livestream webpage

- System built for school's large-scale events' stage control and live-streaming. It allows users to send comments via different IMs and displays a rolling comment on the livestream. Sending comments are now easier and instantaneous which creates a new way to let more students interact with the show.
- Implements automated sensitive word screening algorithm and a manual censor panel for stage admins.
- Use C, Redis and JavaScript to create the system with medium concurrency performance (peak users around 500).

#### High School Stage Lottery System

- System built with C and Javascript to random select and display a member on stage screen and school webpage announcements simultaneously.
- Used in the lottery session during gala and other school events.

### Olympiad in Informatics (OI) and ACM ICPC – 2009 -

- Nearly 10 years of continuous participation in competitive programming contests (since 3rd grade).
- Learn to implement various algorithms, data structures, maths skills, std libraries and tricks used for optimisation.
- Used PC Logo, Pascal, C, C++ for competitive programming.

#### National Olympiad in Informatics 2013, 2014 (Intermediate Group) 1st Prize

#### National Olympiad in Informatics 2015, 2016 (Advanced Group) 2nd Prize

#### Ranked No. 20 out of 200 teams in UK Ireland Programming Contest 2018 (ACM Regionals)

#### Extra : High School Informatics Contest Group Mentor and Online Judge Co-manager

- Teach freshers in groups of 10 on advanced algorithms and data structures, and mentor freshers in groups of 5 on debugging, shell basics and Linux system basics.
- Write and peer-review problems, standard solutions and judging scripts (Python and Shell) used for internal school OI contests with participants of around 100 students.

### Global Leader Education (Beijing) Developer and Computer Science lecturer – 9.2017 - 9.2018

- Build internal GUI tools used for chairing Model United Nations conferences with C++ and wxWidgets, which increases conference chairing efficiency by around 50%.
- Lecture 70 students in classes of 7 - 10 on Artificial Intelligence and Python basics (optional module) and Computing and C basics for 2 months. Received 4.8 / 5 for teaching score assessed by students.

## Education

No. 2 High School of Eastern China Normal University (Shanghai) – 2015 - 2017

University College London (London) – Foundation Course in Science and Engineering, 2017,  
Distinction with UCL UPCSE Progression Scholarship

University College London (London) – BSc in Computer Science, 2018 - 2021 (Expected)

## Skills

Programming Languages :

Python, Java (learning), Haskell (learning)

- with 10,000+ lines of code or actual project experiences :

C++ / C, Pascal / Delphi, JavaScript

Tools :

WordPress, Git, HTML/CSS, MongoDB, Redis

Spoken Languages :

English, Chinese