

Experience & Projects

High School Student Union Tech Department Leader – 10.2015 - 7.2017

- Built websites and backend systems for student union and reduced the use of paper.
- Developed 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 met the high concurrency performance requirements that the previous system didn't. School server had 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.
- Implemented automated sensitive word screening algorithm and a manual censoring panel for stage admins.
- Use C, Redis and JavaScript to create the system with medium concurrency performance (peak users around 500).

Facebook Hack-a-project Trainee – 02. 2019 - 03. 2019

- Explored Facebook London and learn how its different product teams work together to provide services for its users.
- Provided one of the most efficient solutions to coding challenge problems and illustrated solutions to all attendees.
- Prototyped a React.js web app with Facebook mentors aiming to bring Uni societies and student communities together.

JP Morgan Spring into Technology Internship – 04. 2019 - 04. 2019

- Explored JP Morgan London office and shadowed engineers to learn about software development at JP Morgan.
- Competed in coding challenges hosted internally for spring tech Interns and team placed 2nd in one of the challenges.
- Attended talks and panel sessions on various aspects of technology in JP Morgan (ethics, design guidelines and etc.)

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 2015, 2016 (Advanced Group) 2nd Prize

Ranked No. 21 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.

GitHub Campus Expert Program Trainee – 11. 2018 -

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 :

Haskell (learning), Scala(learning)

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

C++ / C, Pascal / Delphi, Python, JavaScript, Java

Tools :

WordPress, Git, HTML/CSS, MongoDB, Redis