

## EDUCATION

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- University of Bristol** Bristol, UK  
MEng (Hons) in **Computer Science and Mathematics** (Joint Degree) 2018 – 2022
- GPA: **2:1 class**
  - Course modules: Algorithms and Data Structures, Deep and Machine Learning, Programming, Mathematics, etc.
- King Edward VI College** Stourbridge, UK  
A-Level 2016 – 2018
- Mathematics, Further Mathematics, Computer science, Physics, Chinese

## WORK AND RESEARCH EXPERIENCE

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- University of Bristol** Bristol, UK  
Teaching Assistant Sep 2020 – June 2022
- Supported students in small group teaching sessions in **unit of mathematics and computer algorithms**
  - Organized problem classes and prepared revision notes for students
- Mars Man AI club** Nanjing, China  
(Remote) Research Assistant June 2020 – August 2021
- Collaborated with senior researchers in **reproducing classic deep learning, computer vision paper projects**
  - Researched on static Swapface to create **Real-time Image Animation** using deep learning techniques built the generative adversarial networks
  - Achieved the fastest running time among all the group
- Huifutianxia. Co.Ltd Data Center** Shanghai, China  
(Internship) Software Engineer June 2019 – Aug 2019
- Assisted in building the **login system back-end for the company internal system**, and created a tool for printing employee attendance schedules
  - Developed an ID card info-reader for data analysis group. **Improved on computer vision algorithms** to the data recognition rate from 70% to 90%
  - Used Python to filter and clean data from Excel, transferred the database to Oracle
- Dyson** Bristol, UK  
Mentee Sep 2018 – Nov 2019
- Collaborated with the mentor from Dyson, Bristol office
  - Visited the Bristol Dyson office and **gave an introduction to 5G speech** to all mentor and mentee on insight day

## TECHNICAL SKILLS AND LANGUAGES

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- **Programming Languages:** Python, Java, C/C++, Golang, JS/HTML/CSS
- **Frameworks and Tools:** Tensorflow, PyTorch,  $\text{\LaTeX}$ , SQL, pandas, R studio, Git

## AWARDS

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- **Best Participation Award of Microsoft Azure** Machine Learning Intro Competition 2019  
Built the machine learning model and achieved the Top 3 performance team in the Bristol regional contest
- **Bloomberg Algorithm Code Competition** 2018  
**Top 5** in Bristol Regional 2018, **Top 50** in the World Finals
- **UK Senior Maths Challenge** 2017 and 2018  
Achieved **Gold metal** for two consecutive year, and **best in school** in 2018

## PROJECTS

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See full list of projects on <https://github.com/ivanqinyu>

- Streaming Algorithms for Computing Matchings in Bipartite Graphs Algorithm  
An Algorithms Engineering Project to implement recent data streaming algorithms.
- Visual Search using Deep Embedding Deep Learning, Computer Vision  
Recommended similar fashion products to users by using triplet loss and ResNet
- Use Mathematics and Computer science solving Rubik's cubes Algorithm, Deep Learning  
Researched and compared the algorithms of solving Rubik's Cube
- Game of life Go, Concurrent Programming  
Multi-threaded and multi-process simulation game of life in GO
- Scotland Yard AI game board Java, Algorithms  
Java object orient programming project with Alpha-beta pruning algorithm
- Desktop calendar Python, Qt  
A software can make the extended screen display time, timetable and other information
- Personal Page HTML  
Deployed and Designed the blog on the GitHub personal page with front-end languages

## LANGUAGES

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- **English:** Working
- **Chinese:** Native

## ACTIVITIES AND HOBBIES

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- **Activities:** Member at Bristol **Computer Science Society** 2018 – 2022  
Attended society activities and speeches about technologies, participated in **coding hackathons**
- **Hobbies:** Rubik's cube, Badminton, Table tennis

*References available upon request*