Haoxuan (Horace) Wang

- Phone: China: +86 18622468042 | UK: +44 (0)7774857427
- Email: sghwan26@student.liverpool.ac.uk | billweasley20092@gmail.com
- Github: https://github.com/billweasley
- Linkedin: https://www.linkedin.com/in/horace-haoxuan-wang/

Education

- Estimated Overall GPA 3.80 / 4.00, Expected First Honors Degree.
- 2016 - 2018 **University of Liverpool**, Bsc Internet Computing

  Year 2 overall: 85.5%

  Core subjects: Software Engineering; Database Concepts; Internet Principles (Introduce to OSI layers); Object-Oriented Programming; Distributed Systems Concepts; Software Development Tools (Mainly about testing); Principles of C && Memory Management; iOS Programming (Swift); Knowledge Representation & Reasoning; Multi-agent System; E-commerce (Auction and Security [RSA, Diffie–Hellman key exchange, Elliptic Curve Encryption]);
- 2014 - 2016 **Xi'an Jiaotong-Liverpool University**, Bsc Information and Computing Science

  Core subjects: Computer Systems; Introduction to Databases;
  Introduction to Programming in Java; Algorithmic Foundations and Problem Solving;
  Data Structures; Operating Systems Concepts; Human-Centric Computing
  Calculus; Introduce to Discrete Mathematics

Honors and Awards

- October 2015 **The National Endeavor Scholarship**

  Scholarship from Chinese Government.
- July 2015 **XJTLU Academic Achievement Award**

  Progression scholarships are awarded based upon a student's average marks in the previous academic session.

Projects

- 2017.09 - 2018.05 **Simulation, Visualization and Experimental Analysis for Population Protocols and Network Constructor in 2-Dimension** *(https://github.com/billweasley/Bsc-dissertation)*

  Population protocol is a theoretical model for distributed computation. The model contains a collection of indistinguishable agents. The network constructor and the terminating grid network constructor are some models extending population protocol but with a different aim to construct network in different topologies.

  - Technology in use: Kotlin, GraphStream
- 2017.02 - 2017.02 **An automatic voter for Chinese TV Eagle Prize** *(https://github.com/billweasley/AutoVoter)*

  The idea starts from a senior female class mate. She is mad with a TV star.
  The original page uses a large chunk of AJAX script, which is hardly to find those dedicated information, so for this situation I used selenium drivers to simulate the login process.

  - Technology in use: Java + Selenium in Java
- 2017.04 - 2017.05 **bookswop.me** *(https://github.com/billweasley/Distributed_library_Release)*

  A book swap platform targeted for UK college teachers and students.
  This is the second year group project (in a group of 9 people).

  - Technology in use: Play! framework 2 (Mainly in Java) + MySQL + Nginx + Amazon AWS
  - My responsibilities:
    - General Team leader;
    - The entire design and implementation of server backend including
      - A timing token-based Single Sign On Service;
      - Server RESTful API design and implementation;
      - Geolocation based range searching;
      - Security mechanism (HTTPs (TLS v1.2) + AES + bCrypt).
    - Database design and development;
    - Server manipulation on Amazon AWS Instance.
- 2016.08 - 2016.09 **A crawler for XJTLU learning platform** *(http://shellcottage.me/firstSpider)*

  A Java crawler that automatically back up all the learning resources from the XJTLU ICE learning platform.

  - Technology in use: JSoup + Java Swing

Publications

- August 2016 **Bluetooth Based Software Defined Function in Internet of Things**

  The 1st Conference on Emerging Topics in Interactive Systems (ETIS 2016), XJTLU
  Haoxuan Wang, Yuan Gao, Kai Zheng, Jie Zhang, Yang Du and Xin Huang
- December 2016 **Applying Docker Swarm Cluster into Software Defined Internet of Things**

  The 8th International Conference on Information Technology in Medicine and Education (ITME 2016, EI Indexed)
  Yuan Gao, **Haoxuan Wang** and Xin Huang