

# Yuxuan Liu

W: yuxuanliu.tech | M: +44 7422583715 | E: oscarliu991110@gmail.com

## EDUCATION

### UNIVERSITY OF CAMBRIDGE

#### M.ENG. ENGINEERING

Christ's College | OCT 2018 - Present

Results: predicted First class

Core Modules:

Information and Computer Engineering

Electrical and Information Science

Instrumentation and Control

### CLONGOWES WOOD COLLEGE

Kildare, Ireland | SEP 2016 - JUN 2018

Achieved 6 H1 in Irish Leaving Cert

## COURSEWORK

Python and C++ programming

Structural design project

Integrated electric project

Integrated design project

Conceptual product design

CAD (Solidworks) and hand-drawing

## SKILLS

### LANGUAGES

Chinese (native), English (proficiency)

### PROGRAMMING

Proficiency:

Python (Numpy, Pandas, Flask, Matplotlib)

Experience:

C++ • MySQL • Linux •  $\text{\LaTeX}$  •

AWS (Lambda, ECS, EC2)

Exposure

HTML • JavaScript • Matlab • Git •

Docker • Assembly

## SOCIETIES

Cambridge University Engineering Society

(CUES) - Events Officer

Hackbridge - Project Tech Lead

Christ's College Basketball Team

## AWARDS

2020 Christ's College scholarship

First place in the 2019 CUES Hackathon

Clongowes Wood College diligence medal

## LINKS

Github:// oscarliu99

LinkedIn:// Yuxuan-Liu

## INTERESTS

Skiing • Basketball • Kayaking • Travelling

## WORK EXPERIENCE

### ESEYE LTD

SOFTWARE ENGINEER INTERN | AUG 2020 - SEP 2020 | GUILDFORD, UK

- Evaluated networking performance of China Telecom Global by conducting SIM validation tests with senior networking engineers.
- Remade a visualization tool to show live usage information of Eseye's SIM profile management system.
- Developed a testing tool to detect looping and encoding errors (fixed 5 major errors so far) in the OTA campaign ruling engine.
- Built a website frontend to integrate testing and visualization tools. The website was deployed serverlessly using AWS Fargate.
- Presented the website to Eseye's senior managers and the website is actively used by the technical support team.

### INDUSTRIAL AND COMMERCIAL BANK OF CHINA

CORPORATE BANKING INTERN | JUL 2019 - AUG 2019 | DALIAN, CHINA

- Followed instructions to complete daily tasks such as collecting & visualizing data and writing reports.
- Presented an algorithm trading demo and scripts for financial valuation to a group of 10 colleagues.
- Streamlined the process of acquiring key information from financial reports by developing a scraper.

## PROJECTS & LEADERSHIP EXPERIENCE

### PERSONAL ACADEMIC BLOG

HTML/CSS, LINUX | AUG 2019 - PRESENT

- **Logical thinking** is my academic blog with posts on various topics such as Programming and Finance. The blog has over 2k visitors by now.
- Integrated an **online drive** (running on a Linux EC2) into the blog for storing website media contents and other private files.

### CAVE RESCUE ROBOT

C++ | JAN 2020 - MAR 2020

- Worked in groups of 5 to design and build a demonstrator robot to carry out a simplified cave rescue mission with Arduino.
- Developed a searching algorithm to detect victims and a correction algorithm to fix unstable readings from sensors.
- Carried out testing and parameter tuning to optimize performance and stability of the searching process.

### PARTIAL FLOOD WARNING SYSTEM

PYTHON | JAN 2019 - FEB 2019

- Built a computational backend to a real-time flood warning system for England.
- Conducted quantitative analysis on river level data.
- Assessed risk by predicting future river level using a regression model.

### 2020 IFM & CUES HACKATHON

CAMBRIDGE | OCT 2020

- Represented CUES to coordinate with Institute for Manufacturing (IfM) to co-host a hackathon which attracted over 100 attendees.
- Chaired registration and publicity phases of the hackathon by working closely with other members in CUES, professors from IfM and external sponsors.