# Guolin Yang

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## 🎓 Education

**Imperial College London,** *Computer Science MEng*  🔗
Oct 2019 – Present | London, UK
- Expected First

**Brighton, Hove & Sussex Sixth Form College (BHASVIC)**  🔗
Sep 2017 – Jun 2019 | Brighton, UK
Mathematics (A*), Further Mathematics (A*), Computer Science (A), Physics (A)

## ⚛ Relevant Courses Taken

- Algorithm Design and Analysis
- Computer Vision
- Models of Computation
- Introduction to Machine Learning
- Mathematics II: Probability and Statistics
- Robotics
- Computational Techniques
- Network and Web Security

## 💼 Professional Experience

**Bloomberg,** *Software Engineering Intern*                    Apr 2022 – Present │ London, UK
- Optimised APIPUB infrastructure to reduce loads on individual machines
- Enable infrastructure to better handle unexpected market events
- Reduced capacity by ~10%
- Implemented numerous multi-way number partitioning algorithms

**Imperial College Business School,** *Software Engineering Intern*        Jul 2021 – Aug 2021 │ London, UK
- Developed an MVP for MBA students from 6 universities around the world to learn mathematics and connect with human tutors to get real time support.
- Responsible for implementing a chat-bot using the MS Bot Framework SDK, MS Graph API and MS Azure.
- Utilised GitHub Actions for continuous deployment increasing efficiency of development.

## 📂 Projects

**Cryptic Crossword Solver**  🔗                                       Oct 2021 – Jan 2022
- Extended two cryptic crossword solvers, built by Unlikely AI and a professor respectively, by making it more accessible to beginner solvers with a React frontend and a plethora of additional features such as auto-solve and hints.
- Implemented an image recognition feature to allow users to upload their own crosswords from a picture.

**A Really Smart Food App**  🔗                                          Jun 2021 – Jul 2021
- Explored the main causes of food waste and possible solutions.
- Built a recipe website with the aim of reducing food waste.
- Employed the use of rapid iteration development, based on feedback from stakeholders, with a focus on human centered design.

**Duckie Town,** *eJass 2021*  🔗                                        Mar 2021 – Apr 2021
- Investigated continuous software engineering in the context of IoT devices.
- Responsible for the automated remote deployment of new containers to duckie bots in St Petersburg and the Technical University of Munich.

**PintOS**                                                              Oct 2020 – Dec 2020
- Built a simple operating system from a bare bones framework, with a focus on concurrency and memory management.
- Implemented kernel threads, scheduler, loading and running user programs, and virtual memory

**ARM11 Group Project**                                                 May 2020 – Jun 2020
- Implemented an ARM11 assembler and emulator tested with a memory leak checker and unit tests.
- Built an audio spectrum visualiser using FFTW and SDL which could be displayed on an LED matrix with a Raspberry Pi, as an extension.
- Top 5 Most Interesting Extension out of 47.

## 🏋 Extra-cirricular

- Member of the London Blockchain Labs' Lab Team
- Member of the Imperial College Football Third Team
- GitCoin Kernel Fellow - Block II
- Volunteer staff at IC Hack 2019

## 🎨 Skills

**Technical Skills** (Python Java Haskell C/C++ Javascript and React HTML/CSS SQL Scala)

**Technologies** (Git Linux MS Azure MS Bot Framework SDK MS Graph API Make)

**Languages** (English Cantonese Mandarin)