

GUOLIN YANG

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Education

Imperial College London

Oct 2019 - Present

Master of Engineering in Computing

London, UK

- Year 1: Upper Second-Class Honours
- Year 2: Upper Second-Class Honours

Brighton, Hove & Sussex Sixth Form College (BHASVIC)

Sep 2017 – Jun 2019

A Levels

Brighton, UK

- Mathematics (A*), Further Mathematics (A*), Computer Science (A), Physics (A)

Relevant Courses Taken

- Introduction to Computer Systems
- Discrete Mathematics
- Reasoning about Programs
- Graphs and Algorithms
- Algorithm Design and Analysis
- Software Engineering Design
- Models of Computation
- Networks and Communications
- Mathematics II: Probability and Statistics
- Computational Techniques

Work Experience

Imperial College Business School | *Software Engineering Intern. London, UK*

Jul 2021 – Aug 2021

- 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

A Really Smart Food App | *Python, NextJS, React, CSS, Heroku, Git*

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.

eJASS-2021 | *Python, Bash, Linux, Git*

Mar 2021 - April 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.
- Used Scrum Agile Methodology in my work.

PintOS | *C, Git, Make*

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 | *C, Git, Valgrind, Make*

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.

Technical Skills

Programming Languages: Haskell, Python, Java, JavaFX, C, HTML/CSS, React, NextJS, JavaScript, SQL, Scala, ScalaFX, Processing

Technologies: Git, Linux, JUnit, Valgrind, Data Structures, MS Azure, MS Bot Framework SDK, MS Graph API, Make

Languages: English, Cantonese (Native), Mandarin (Intermediate)

Extracurricular

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