

Guolin Yang

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EDUCATION

Imperial College London

London, UK

Master of Engineering in Computing

Sep 2019 - Present

- First Year: Upper Second-Class Honours including 92% in Haskell and 80% in Program Reasoning
- Completed modules: Introduction to Computer Systems, Mathematics I, Logic, Discrete Mathematics, Introduction to Computer Architecture, Reasoning about Programs, Introduction to Databases, Graphs and Algorithms, Computer Practical 1 (Haskell, Java, C)

Brighton, Hove & Sussex Sixth Form College (BHASVIC)

Brighton, UK

A-Level

Sep 2017 - Jun 2019

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

PROJECTS

eJASS-2021

Mar 2021 - Present

Imperial College London

London, UK

- Investigating 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

WACC

Jan 2021 - Mar 2020

Imperial College London

London, UK

- Built a compiler for the WACC programming language using Scala
- Developed an IDE for it using ScalaFX

Pintos

Oct 2020 - Dec 2020

Imperial College London

London, UK

- Built a simple operating system from a bare bones framework
- Implemented kernel threads, scheduler, loading and running user programs, and virtual memory

ARM11 Group Project

May 2020 - Jun 2020

Imperial College London

London, UK

- Implemented an ARM11 assembler and emulator
- Built an audio spectrum visualiser using FFTW and SDL which could be displayed on an LED matrix with a Raspberry Pi, as an extension
- Tested with our own unit tests and a memory leak checker (Valgrind)
- Documented the process in a report and presentation video
- Top 5 Most Interesting Extension out of 47

Find a way

2017 - 2018

BHASVIC

Brighton, UK

- Conceptualized a maze game for my A-level coursework using Processing
- Learnt about various maze generation and path finding algorithms
- Documented the whole process from start to finish, including a review of the project

SKILLS

Programming Languages: Java, JavaFX, Processing, Python, C, Haskell, Javascript, HTML, CSS, L^AT_EX, Prolog, Scala, ScalaFX

Technical Skills: Git, JUnit, Linux, Data Structures

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

EXTRA-CURRICULAR

Member of the London Blockchain Labs' Lab Team

Bitcoin Kernel Fellow - Block II

Member of the Imperial College Football Third Team

Member of the Imperial Data Science Society