KERRY XU

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EDUCATION

Imperial College London   London, UK
MEng Computing   *2018 - 2022*
- Second Year: 82.8% (1st Class); first year: 72.0% (1st class)
- Achieved 93.3% in Algorithms 2; 91.5% in Software Engineering Design and 88.9% in Compilers
- Year 2 Dean's List (Top 10% of cohort)

Tiffin School   London, UK
Secondary School.   *2010 - 2018*
- 3 A*s (Maths, Further Maths, Physics); A (Economics) at A Levels and A in AS Geography
- GCSEs - 8A*, 2As and A* with distinction for Additional Maths
- Gold in the UKMT Senior Maths Challenge for three consecutive years

PROJECTS

PintOS
Patched an minimal implementation of an 80x86 operating system in C to improve the thread scheduler and add support for loading and running user programs; system calls and virtual memory.

WACC Compiler
Engineered a compiler for the WACC language in Kotlin. Implemented syntax and semantic analyzer and code generation for all the language features including basic types, functions and arrays. Extended language and compiler to support classes, function overloading and created an interactive shell.

ARM11 Project
Developed an ARM11 emulator, assembler and an assembly program for the Raspberry Pi from scratch using C and Assembly. Created a Piano Tiles arcade game using C and the SDL2 library and built a mini arcade machine using a Raspberry Pi to play it.

WORK EXPERIENCE

Smarkets, London   Summer 2020, Cancelled due to Covid-19
Software Engineering Internship

Facebook Hack a Project, London   February 2020 - March 2020
Month long programme to learn more about the technologies used at Facebook. Built an cross-platform app to bring communities together and connect students with university societies and their events. Used the Ionic React framework with Express.js and MongoDB to develop RESTful APIs.

Deutsche Bank, Remote   May 2020
Spring Week
Learnt about how technology is used to support Deutsche Bank and an overview of Corporate Banking.

SKILLS & INTERESTS

Programming - Proficient with Java, C; familiar with Go, C#, Kotlin, Python, JavaScript, NodeJS, SQL, Git, Haskell, Docker, Bash, React, MongoDB, NodeJS

Languages - Native in English; Proficient in Mandarin Chinese

Extracurricular - Imperial College ABACUS (Association of British and Chinese University Students) Secretary 19/20, Grade 7 Oboe, Bridge, Table Tennis and Cycling.