

# Ka Lok Chau

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## Personal Profile

Undergraduate, second year, student at the University of Manchester currently studying Computer Science. Have an enthusiasm for software development and am excited about the opportunity to work in challenging projects. Particular interests in hardware, artificial intelligence, web design and software development.

**My Personal Website:** <https://programmer-sam.github.io/web.html>

## Education

### University of Manchester

Manchester, UK

BSc Computer Science

Sept 2021 - Current

- **Modules Finished(First Year):** Fundamentals of Computer Engineering, Fundamentals of Computer Architecture, Programming, Fundamentals of Computation, Data Science, Operating Systems, First Year Team Project, Mathematical Techniques of Computer Science
- **Completed first year with a first: 74%**
- **Modules Taking(Second Year):** Logic and Modelling, Processor Micro-Architecture, Database Systems, Software Engineering, Microcontrollers, Introduction to visual computing, Distributed Systems, Programming Languages and Paradigms, Algorithms and Data Structures

### Wilson's School

London, UK

A-Levels

Sept 2019 - July 2021

- Finished all courses with an **A\***
- **Subjects:** Further Mathematics, Mathematics, Computer Science, Geography

### Raynes Park High School

London, UK

Secondary School

Sept 2014 - July 2019

- **Passed with Grade 9:** Biology, Chemistry, Physics, English Literature, History, Mathematics, Computer Science
- **Passed with Grade 8:** English Language, Geography

## Skills

**Programming:** Proficient in: Python, Web Design(HTML,JS, CSS, PHP), Java, ARM, Verilog

**Miscellaneous:** Linux, Git, Microsoft Excel, Latex, **Languages:** English, Cantonese (General Proficiency)

## Projects

### Machine Learning Project

Extended Project Qualification

- Coded a Q-Learning algorithm and driving game that was a suitable environment for a reinforcement learning program
- Learnt the fundamental concepts behind reinforcement learning and was able to grasp several primitive mathematical equations that are critical in the development of the reinforcement learning paradigm
- Performed a presentation for this project to a mentor and obtained an **A\* grade** for my work.
- **Technical Skills:** Python
- **Soft Skills:** Time Management, Presentation skills, Academic Researching/Referencing, Documentation.

### Recreation of the Asteroids Game

A-Level Project

- Designed and programmed a game which resembled a retro-asteroids game.
- Required, by the course, to follow an agile development cycle which heavily revolved around testing and review from stakeholders
- **Develop my skills in:** object oriented design, in-depth documentation, graphical user interface designs and programming complicated mathematical formula's
- **Technical Skills:** Python
- **Soft Skills:** Documentation, Team work, Time Management

### Web Application

Group Project: University of Manchester

- Small group project which involved designing a website and utilised a database to provide enhanced functionality
- Developed a web app which could find local restaurants and display them to the user to swipe through
- Took a crucial role in managing the database while also aiding front-end design and understood the complexities of a client/web-server connection to an external DB hosted by the University
- **Technical Skills:** HTML, CSS, JavaScript, SQL, Git, Python(Flask)
- **Soft Skills:** Team Work, Leadership, Time Management, Presentation Skills, Database Management