

# Ka Lok Chau

7 Simmons Walk, Basingstoke, Hampshire, RG21 4BS

☎ +447572350113 | ✉ chau02470@gmail.com | 🌐 [github.com/Programmer-Sam?tab=repositories](https://github.com/Programmer-Sam?tab=repositories)

## Personal Profile

I am an Undergraduate, second year, student at the University of Manchester currently studying Computer Science. I have an enthusiasm for software development and am excited about the opportunity to work in challenging projects. I have a particular interest in hardware, artificial intelligence 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

May 2019 - May 2021

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

### Raynes Park High School

London, UK

Secondary School

Apr 2014 - Apr 2019

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

## 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
- I 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
- I also presented 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

- I designed and programmed a game which resembled a retro-asteroids game.
- Required me to follow an agile development cycle which heavily revolved around testing and review from stakeholders
- Required me to develop my skills in: object oriented design, in-depth documentation, graphical user interface designs and programming several 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 dynamic website which was powered by a database to provide more functionality
- We created a web app which could find local restaurants and display them to the user to swipe through
- I 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

## Skills

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

**Miscellaneous** Linux, Git, Excel, Latex