# *Peter* HU

University of Cambridge |
*Computer Science* Part IA |
Jardine Scholar

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## ABOUT ME

I am a Computer Science student studying at University of Cambridge. What I really enjoy is the beauty of Computer Science and how it can be applied in nearly all fields of life. Having used C/C++ for over a whole year, I master the basic syntax, exception and OOP. Thereafter, other programming languages become easier to learn as they are similar in the foundation. With the help of OpenCourseWare, I gain more knowledge myself on different kinds of field. My current learning focus is on Operating System, Artificial Intelligence and etc. The joy of exploring unknown and improving step by step is what I enjoy. Meanwhile, it's also part of my daily routine to learn more around Algorithm and Data Structure, Database, Computer Graphics etc.

## TECHNICAL SKILLS

**Math Background**
Calculus, Linear Algebra, Discrete Math, Probability and Statistics
*Exploring:* Abstract Algebra, Topology(basic)

**Programming Background**
C, Cpp, Java, Python, OCaml, HTML/ CSS, SQL, Latex
**OS:** MacOS, Linux; Less Frequent: Win

## EDUCATION BACKGROUND    SEE MORE ON LINKEDIN

**University of Cambridge**    *2022.10 - Till now*
Undergraduate, Computer Science
Supported by fully funded Jardine Scholarship.
**Xiamen University**    *2021.09 - 2022.06*
First year of Undergraduate Program, Software Engineering

Class Rep, ACM Team training.
GPA: 3.91 / 4.0 (first term), 88/100 (the whole year)
**Nanyang Model High School**    *2018.09 - 2021.06*
High School Diploma
Physics Rep, Leader of a research project. I have been awarded ShuPing Scholarship twice.

## COURSES TAKEN

OOP, Digital Electronic, Database, Programming Languages listed above, Math, Computer Graphics, etc

## PROJECT AND ASSIGNMENT    SEE MORE ON GITHUB

### *Previous*

**Database Design Project (C++)**    *2022.8-Now*
*[CMU15-445 Project]* Project (Github) | 📝 Blog
   Buffer Pool Management System, Latch, LRU Replacement policy, Buffer Pool Manager Instance. In order to solve the concurrent problem, implement the PARALLEL Buffer Pool Manager.
C++ STL; Useful Coding Skills: Google C++ Style Guide

**Introduction to Computer Graphics**    *2022.7-2022.9*
*[MIT6.837 Assignment]* | 📝 Blog



   Ray casting, normal visualization, rendering, voxel rendering, super sampling and 3D OpenGL visualization using C++.
Implement two kinds of cameras, several types of primitive objectives, light.

**Multifunctional Supermarket Management System**
*[Cpp & OOP Project] 2022.4*  Project (Github) | 📝 Blog
   Using Inheritance(Parent-Child), Polymorphism(Operator Overloading)
Read/Write Files, just to name a few
**Typing Game**    *[C Programming Project] 2021.12*
Graphically Beautiful Interactive Game
C & EasyX. Project (Github) | 📝 Blog

### *Ongoing*

**Operating System [MIT 6.S081]**
⚠️Update: Start from 14/Oct/2022
**Artificial Intelligence CS229**
Learning required Math and Coding at the same time
**Java & Algorithm**
[Leetcode] Algorithm - to be updated

## INTEREST AND EXTRACURRICULAR ACTIVITIES

Music, swimming, yoga, gym, helping others etc. | Society Joined: Ethics in Mathematics
Economics Related Topics:  Macro & Micro, Money Banking

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