

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

Exploring: C#, JavaScript

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, 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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