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; Previously Using: Win

EDUCATION BACKGROUND   SEE MORE ON LINKEDIN

University of Cambridge   *2022.10 - Till now*
Undergraduate, Computer Science
Supported by fully funded Jardine Scholarship.

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.

Xiamen University   *2021.09 - 2022.06*
First year of Undergraduate, Software Engineering

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

Personal Home Page: https://peterhuistyping.github.io