

Changhe Xie

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Education

The University of Hong Kong

Sept. 2020 — June 2024

Bachelor of Engineering (Computer Science)

GPA: 3.4 / 4.3 (top 20%)

Relevant Courses: Computer Vision, Machine Learning, Introduction to AI, Operating System
Web Development and Internet, Android Mobile App Development etc.

The University of Wisconsin-Madison

Dec. 2022 — June 2023

Computer Science (Exchange)

Relevant Course: Information Security, Database, Computer Internet

University of California, Berkeley

June 2021 — Aug. 2021

Computer Science (Summer Exchange)

Relevant Course: Data Structure

Projects

A-Grade Time Manager, Main Developer

Oct. 2022

An Android mobile App using Java as the basic language and contains features of Pomodoro, Study room, To do list and User data displaying

- Responsible for the overall UI design and the backend development of Pomodoro and Study room
- The project was recommended by Dr. T.W. Chim and participated in the 2022's HKU Inno Show

A simple Shell in Linux Environment, Personal Project

Sept. 2022

A Shell program that was developed using C language in Linux environment

- Developed a shell that can locate and execute any valid program by giving an absolute path or a relative path or by searching directories under the \$PATH environment variable
- The shell can print out the process statistics of terminated child process(es)
- The shell supports & (background job) and | (pipe)

Human Hands Tracking and Visualisation on HoloLens, Main Developer

Nov. 2021

A program combined with Augmented-Reality and Computer Vision

- Worked in the team of Dr. Jia Pan and developed a program that used Microsoft MRTK package to timely track hand nodes
- And further develop the program to synchronously rendering human hands based on hand nodes using Unity techices

Python course of The University of Hong Kong, Tutor

July 2021

- Worked for Dr. Dirk Schnieders as paid tutor of course COMP1117 for one semester
- Responsible for 15 students and gave tutorials every week

A Website Breaking the Information Cocoon, Main Developer

Jan. 2021

A news site with a URL classifier as the core that provides multiple perspectives

- Responsible for the construction, training and testing of the URL classifier, which classifies news into U.S. Democratic news and Republican news
- Responsible for the Website development using MERN Stack
- The program received the highest score for its course

Other Highlights

Scholarship: HKU Worldwide Undergraduate Student Exchange Scholarships

Computer Languages: JavaScript, Python, C, C++, Java, TensorFlow

Natural Languages: Mandarin(Native), English(Fluent)