

# JAMES YOUNG

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## EDUCATION

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**The Hong Kong University of Science and Technology**

**2020 – Present**

- BEng Electronic Engineering

## RELEVANT COURSEWORK

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- Intro. to Computer Science
- Programming with C++
- Computer Communication Networks
- Electronic Circuits
- Electro-Robot Design
- Introduction to Computer Organization and Design

## PERSONAL PROJECTS

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### HTTP 1.1 Server 🔗 | C

- Created a simple HTTP 1.1 web server in C that is able to serve static web pages and images to a client's web browser.
- Uses concepts of socket programming to connect client and server and HTTP protocol to serve files.

### ESP32 Temperature and Humidity Monitor 🔗 | C

- Created an IoT temperature and humidity sensor using an ESP32 and DHT11 sensor and programmed in C with ESP-IDF framework.
- Program reads the sensor data from GPIO, converts it to temperature and humidity, then sends the data over a HTTP server to be able to view the data on a webpage.

### Home Server 🔗 | Linux, Bash

- Built home server running bare metal Ubuntu server to host services such as NextCloud with Docker.
- Became familiar and comfortable around Linux and the command-line interface. Also learned and applied various networking concepts such as reverse proxies, vlans, etc.

## SKILLS

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**Programming Languages:** C, C++, Python

**Tools/Software:** Linux, Git, Bash

**Spoken Languages:** English (Native), Mandarin (Conversational)

## Work Experience

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### **HKUST Student Helper**

**June 2021 – July 2021**

- Helped school event by sending out invitations to primary, secondary, and tertiary schools in HK. Worked in a small team to compile mailing list of all the schools in Excel then sent invitations using Outlook.
- Helped update and check course materials for class on Canvas

## Extracurricular Activities

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- **HKUST Football Team** **January 2021 - Present**
- **Project C - Connect x Community (Volunteer Program)** **October 2020 - February 2021**