JAMES YOUNG

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EDUCATION

The Hong Kong University of Science and Technology   **2020 – Present**
- BEng Electronic Engineering

RELEVANT COURSEWORK

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

PERSONAL PROJECTS

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

Programming Languages: C, C++, Python
Tools/Software: Linux, Git, Bash
Spoken Languages: English (Native), Mandarin (Conversational)

Work Experience

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

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