

# James Young

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## EDUCATION

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

*BEng in Electronic Engineering - Minor in Information Technology*

Hong Kong

*Sept. 2020 – Present*

## RELEVANT COURSEWORK

- Programming with C++
- Object-Oriented Programming and Data Structures
- Intro. to Computer Organization and Design
- Computer Communication Networks
- Deep Learning in Computer Vision
- Cloud Computing and Big Data Systems

## SKILLS

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

**Tools/Platforms:** Git, Docker, Linux, Nginx

**Cloud:** AWS (DynamoDB, Lambda, API Gateway, EC2, S3)

**Languages:** English (Native)

## WORK EXPERIENCE

**Software Developer Intern | Intelligent Design Technology**

*December 2023 – February 2024*

- Developed a prototype for real-time human fall detection using pose estimation with Movenet and heuristics for determining fall.

**Electronic Engineering Intern | Kolour Think Tank**

*August 2023*

- Developed a digital utility meter reader that takes images of a utility meter with an ESP32-CAM, stores images to AWS S3, reads the meter reading with Rekognition, and stores the data in DynamoDB.

**IoT Intern | Graphite Venture Limited**

*December 2022 – May 2023*

- Developed Arduino libraries for reading water sensor data with ESP32 and sending sensor data to AWS IoT Core through MQTT.

## PROJECTS

**Air Quality Monitoring Dashboard** [!\[\]\(206536f97fdb267876a3a10ea42b0254\_img.jpg\)](#)

- A fullstack project that stores and displays my home's air quality sensor data on a DynamoDB database using AWS services.
- Data on DynamoDB is stored and retrieved using REST API with API Gateway and Lambda.

**Home Server** [!\[\]\(241407ae374027aec4b030ca93d07b05\_img.jpg\)](#) |

- Built home server running Proxmox for self-hosting services such as Nextcloud.
- Became familiar and comfortable around Linux and the command-line interface and learned how to apply various tools such as Nginx, Docker, etc.

**Mini Robot Cleaner** [!\[\]\(b626ca8a6876887fc3858e02aec38235\_img.jpg\)](#)

- Created a robot car cleaner with a STM32 board that can be wirelessly controlled through UDP or can roam autonomously
- Integrated the bubble rebound algorithm for avoiding obstacles in free roam mode