# James Young

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# EDUCATION

## The Hong Kong University of Science and Technology

Hong Kong

BEng in Electronic Engineering - Minor in Information Technology

Sept. 2020 - June 2024

# SKILLS

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

Tools/Platforms: Linux, Git, Docker, Ansible, Jenkins, Kubernetes

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

Languages: English (Native)

# WORK EXPERIENCE

# Software Developer Intern | Intelligent Design Technology Decem

December 2023 - Feburary 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

- A fullstack project that stores and displays my home's air quality sensor data using AWS services.
- Data is stored and retrieved on DynamoDB using REST API with API Gateway and Lambda. Front-end uses HTML, CSS, and Javascript.

#### Home Server

- Built home server running Proxmox for self-hosting services and applications such as Nextcloud using Linux containers and virtual machines.
- Applied various tools such as Docker for containerization, Grafana for monitoring, and Ansible for automation.

#### Mini Robot Cleaner

- Created a robot car cleaner with a STM32 board written in C that can be wirelessly controlled through UDP or can roam autonomously
- Integrated the bubble rebound algorithm for avoiding obstacles in free roam mode
- Used Python UDP transmissions and for GUI to control robot wirelessly

#### Extracurricular Activities

• HKUST Football Team