

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

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.

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 AWS Rekognition, and stores the data in DynamoDB.

Software Developer Intern | Intelligent Design Technology

December 2023 – February 2024

- Developed a real-time person fall detector targeted for a Raspberry PI elderly companion robot. Uses pose estimation with Movenet and heuristics for determining fall.

PROJECTS

Air Quality Monitoring Dashboard

- 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.

Mini Robot Cleaner

- Created a robot car 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
- Used Python for socket programming and PyQt5 to create GUI to control robot wirelessly

EXTRACURRICULAR ACTIVITIES

- HKUST Football Team

Jan. 2021 - Present