

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 – June 2024

Boston University

Master in Computer Science

United States

Sept. 2024 – Present

CERTIFICATIONS

- AWS Certified Solutions Architect (SAA-C03)
- HashiCorp Certified Terraform Associate (003)
- Red Hat Certified System Administrator (RHCSA)

SKILLS

Programming Languages: Python, Bash

Tools: AWS, Terraform, Docker, Ansible, Git, Github Actions

Platforms: Linux, Windows, MacOS, Proxmox, VMWare

Others: Networking Concepts (VLANs, VPN, DNS), PC Hardware

WORK EXPERIENCE

Intelligent Design Technology

Software Developer Intern

Hong Kong

December 2023 – February 2024

- Developed a prototype for real-time human fall detection for a Raspberry PI based robot using camera inputs with Python.
- Fall detection uses Tensorflow and Movenet for pose estimation and heuristics for determining fall.

Graphite Venture Limited

IoT Intern

Hong Kong

December 2022 – May 2023

- Created Arduino libraries in C++ for reading water sensor data with ESP32 and sending sensor data to AWS IoT Core with MQTT.
- Achieved 40% decrease in power consumption by implementing light sleep intervals in ESP32.

PROJECTS

Home Server

- Built homelab running Proxmox using Linux containers and VMs for self-hosting services such as file and media servers, Github self-hosted runners, etc.
- Applied tools such as Grafana for monitoring, Terraform and Ansible for deploying and provisioning resources, etc.

Serverless Face Blurring

- An event-driven serverless application that allows users to upload images and blurs faces on the images.
- Image processing uses Lambda and Rekognition, backend uses S3 and DynamoDB with SQS in-between to decouple the application.
- Used Terraform for deployment and implemented basic CI/CD pipeline using Github Actions.