

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, Proxmox, Windows 10 (basics), MacOS (basics)

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

WORK EXPERIENCE

Kolour Think Tank
Electronic Engineering Intern

Hong Kong
July 2023 – August 2023

- Developed a low-cost IoT serverless digital utility meter reader using ESP32-Cam and AWS services.
- Sends images of utility meter to S3, uses Rekognition to read image data, and stores data in DynamoDB.

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.
- Achieved 40% decrease in power consumption by implementing light sleep intervals in ESP32.

PROJECTS

Home Lab

- 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.