

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, Javascript, Bash

Tools/Platforms: AWS, Linux, Git, Github Actions, Terraform, Docker

Others: Networking Concepts (VLANs, VPN, DNS, etc.)

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.
- Utilized S3 for storing images of utility meter, Lambda and Rekognition to extract image data, and DynamoDB for data storage.

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 and switching from HTTP to MQTT protocol.

PROJECTS

Serverless Face Blurring

- An event-driven serverless application that allows users to upload images and blurs faces on the images. Front-end uses ReactJS and middleware uses Lambda functions in Python.
- Image processing uses Lambda and Rekognition, backend uses S3 and DynamoDB with SQS in-between to decouple the application.
- Implemented CI/CD pipeline using Github Actions and Terraform for automated deployment.

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.