

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)

SKILLS

Programming Languages: Python, Javascript, Bash
Tools/Platforms: AWS, Linux, Git, Terraform, Docker
Others: Networking Concepts (VLANs, VPN, DNS, etc.)

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.
- Fall detection uses Tensorflow and Movenet for pose estimation and heuristics for determining fall.

Kolour Think Tank
Electronic Engineering Intern

Hong Kong
July 2023 – August 2023

- Worked on a low-cost IoT serverless digital utility meter reader that ESP32-Cam and integrated with API Gateway, S3, Rekognition, Lambda, and DynamoDB.

Graphite Venture Limited
IoT Intern

Hong Kong
December 2022 – May 2023

- Programmed Arduino libraries for reading water sensor data with ESP32 and sending sensor data to AWS IoT Core with MQTT.

PROJECTS

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.

Home Server

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