James Young

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EDUCATION

The Hong Kong University of Science and Technology

Hong Kong Sept. 2020 – June 2024

 $BEng\ in\ Electronic\ Engineering\ -\ Minor\ in\ Information\ Technology$

United States

Master in Computer Science

Sept. 2024 - Present

CERTIFICATIONS

Boston University

• 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, Terraform, Docker, Github Actions

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

WORK EXPERIENCE

Intelligent Design Technology

Hong Kong

Software Developer Intern

December 2023 - Feburary 2024

- Developed a prototype for real-time human fall detection for a Raspberry PI based robot in Python.
- Utilized Tensorflow's Movenet for pose estimation combined with heuristics for determining fall.

Kolour Think Tank

Hong Kong

Electronic Engineering Intern

July 2023 - August 2023

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

Graphite Venture Limited

Hong Kong

IoT Intern

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

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 CI/CD pipeline using Github Actions.

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.