James Young

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Education

The Hong Kong University of Science and Technology — Hong Kong
BEng in Electronic Engineering - Minor in Information Technology — *Sept. 2020 – June 2024*

Boston University — United States
Master in Computer Science — *Sept. 2024 – Present*

Certifications

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

Skills

Programming Languages: Python, Bash
Tools: AWS, Terraform, Docker, Ansible, Git, Github Actions
Platforms: Linux, Windows 10, Windows Server, Windows AD, MacOS, Proxmox, VMWare
Others: Networking Concepts (VLANs, VPN, DNS), PC Hardware

Work Experience

Software Developer Intern | Intelligent Design Technology *December 2023 – Feburary 2024*

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

IoT Intern | Graphite Venture Limited *December 2022 – May 2023*

- Developed C++ Arduino libraries for reading water sensor data with ESP32 and sending sensor data to AWS IoT Core through 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.