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*

SKILLS

Programming Languages: Python, Javascript, C++
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*

- 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 — 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 for image storage and DynamoDB for job ID tracking with SQS to decouple application.
- Front-end uses vanilla HTML, CSS, Javascript and compresses image client-side.
- 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.

CERTIFICATIONS

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