

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

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

SKILLS

Programming Languages: Python, Javascript, Bash

Tools/Platforms: AWS, Linux (Red-Hat & Debian-based Distros), Terraform

Others: Networking Concepts (VLANs, VPN, DNS), PC Hardware

WORK EXPERIENCE

Software Developer Intern | Intelligent Design Technology *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.

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

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

PROJECTS

Home Server

- Built homelab running Proxmox for self-hosting services such as file and media server using Linux containers and VMs.
- Applied various tools such as Docker for containerization, Grafana for monitoring, Ansible for automation, etc.

Serverless Face Blurring

- A serverless application that blurs faces on an image using OpenFaaS and Python. Stores the transformed image in a MinIO storage bucket.
- Application deployable on Kubernetes using MiniKube and Helm charts.

Air Quality Monitoring Dashboard

- A fullstack project that stores and displays my home's air quality sensor data using AWS services.
- Data is stored and retrieved on DynamoDB using REST API with API Gateway and Lambda. Application deployed on an EC2 instance.