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

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

SKILLS

Programming Languages: Javascript (ReactJS, NodeJS), Python
Tools/Platforms: AWS, Linux, Git, Terraform, Ansible, Docker, PostgreSQL
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.
- Fall detection uses Tensorflow and Movenet for pose estimation and heuristics for determining fall.

Graphite Venture Limited — Hong Kong
IoT Intern — *December 2022 – May 2023*

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

PROJECTS

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.

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.

Air Quality Monitoring Dashboard

- A fullstack project that stores and displays my home's air quality sensor data using AWS services.
- Backend uses DynamoDB with API Gateway and Lambda as middleware. Application deployed on an EC2 instance.