

# James Young

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## EDUCATION

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**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

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- AWS Certified Solutions Architect (SAA-C03)
- Red Hat Certified System Administrator (RHCSA)

## SKILLS

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**Programming Languages:** Python, Javascript, Bash

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

**Others:** Networking Concepts (VLANs, VPN, DNS)

## WORK EXPERIENCE

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**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

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### 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.