

# 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*

## SKILLS

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

**Tools/Platforms:** AWS, Linux, Git, Terraform, Docker, Github Actions

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

## WORK EXPERIENCE

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### Intelligent Design Technology

*Software Developer Intern*

Hong Kong

*December 2023 – February 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

*Electronic Engineering Intern*

Hong Kong

*July 2023 – August 2023*

- Worked on a low-cost IoT serverless digital utility meter reader with ESP32-Cam and integrated with API Gateway, S3, Rekognition, Lambda, and DynamoDB.

### Graphite Venture Limited

*IoT Intern*

Hong Kong

*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

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### 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 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

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