

# James Young

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## EDUCATION

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### Boston University

*Master of Science in Computer Science*

- GPA: 4.0

MA, United States

*September 2024 – Present*

### Hong Kong University of Science and Technology

*Bachelor of Science in Electronic Engineering, Minor in Information Technology*

- GPA: 3.13

Hong Kong

*September 2020 – June 2024*

## SKILLS

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**Technologies:** Python, Javascript, SQL (MySQL), HTML/CSS

**Libraries/Frameworks:** React

**Platform/Tools:** Git, Github Action, AWS, Terraform, Linux, Docker

## PROJECTS

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### Serverless Face Blurrer

*faceblur.jyylab.com*

*React, Python, Lambda, DynamoDB, S3, Rekognition, Terraform*

- Developed a full-stack application that automatically blurs faces in images uploaded to an S3 bucket with job queues stored in DynamoDB
- Frontend built with React and backend built with Python using AWS Lambda and Rekognition
- Deployed the application using Terraform with CI/CD implemented with Github Actions
- Improved system reliability by adding SQS to handle image processing jobs

### Homelab

*jyyhomelab.com*

*Linux, Docker, Ansible, Terraform*

- Built and managed a setup of servers and network equipment for experimenting, learning, and self-hosting services
- Utilized Proxmox for virtualization and OPNsense firewall for advanced network configurations (e.g., VLANs)
- Automated resource provisioning using Terraform and implemented system monitoring with Grafana

## CERTIFICATIONS

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

## EXPERIENCE

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### Software Developer Intern

December 2023 – February 2024

*Intelligent Design Technology Limited*

*Hong Kong*

- Developed a prototype for real-time human fall detection for a Raspberry PI based robot in Python
- Utilized OpenCV for video capture and Tensorflow with Movenet for pose estimation combined with heuristics for classifying fall

### IoT Intern

December 2022 – May 2023

*Spotless Tech Limited*

*Hong Kong*

- Implemented C++ libraries for reading water sensors with ESP32 and sending sensor data to AWS with MQTT, achieved ESP32 20% power consumption reduction by implementing light sleep intervals.
- Worked on implementing peer-to-peer communication for activating nearby water pumps with multiple ESP32 devices. Increased communication range and speed by more than 10% by switching from BLE to ESP-Now.

## EXTRACURRICULARS

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### NCAE Cyber Games

January 2025 – March 2025

- Joined the NCAE cyber security competition to compete against other students in capture the flag competitions