James Young

+1 (857) 270-8026 | jyyoung@bu.edu | jamesyoung-15 | linkedin.com/in/jamesyyoung

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*

Skills

Programming Languages: Python, Javascript, C++, Bash
Tools/Platforms: Linux, Git, Docker, Ansible, AWS
Others: Networking Concepts (VLANs, VPN, DNS), PC Hardware Assembly

Work Experience

Software Developer Intern | Intelligent Design Technology *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.

Electronic Engineering Intern | Kolour Think Tank *July 2023 – August 2023*

- Helped create an IoT digital utility meter reader using AWS services and an ESP32-Cam
- Programmed ESP32-Cam to take images of a utility meter and send the images to S3. Used Rekognition OCR on images to obtain meter reading and stored numerical data into DynamoDB.

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.