

James Young

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EDUCATION

The Hong Kong University of Science and Technology

BEng in Electronic Engineering - Minor in Information Technology

Hong Kong

Sept. 2020 – May 2024

- GPA: 3.1

Boston University

MS in Computer Science

United States

Sept. 2024 – Present

- GPA: 3.85

SKILLS

Programming Languages: Python, Javascript, Bash

Libraries/Frameworks: ReactJS, NextJS

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

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

WORK EXPERIENCE

Kolour Think Tank

Electronic Engineering Intern

Hong Kong

July 2023 – August 2023

- Created a low-cost IoT serverless digital utility meter reader using ESP32-Cam and AWS services.
- Utilized S3 for storing images of utility meter, Lambda and Rekognition to extract image data, and DynamoDB for data storage.

Graphite Venture Limited

IoT Intern

Hong Kong

December 2022 – May 2023

- Programmed Arduino libraries in C++ for reading water sensor data with ESP32 and sending sensor data to AWS IoT Core with MQTT.
- Improved power consumption by 40% by implementing light sleep intervals in ESP32 and switching from HTTP to MQTT protocol.
- Developed device-to-device communication using ESP-Now for triggering nearby water pumps, increasing communication range by .

PROJECTS

Serverless Face Blurring

- An event-driven serverless application that allows users to upload images and automatically detects and blurs any faces on the image.
- Front-end uses ReactJS, middle-ware uses Lambda and Rekognition, backend uses S3 and DynamoDB with SQS in-between to decouple the application.
- Implemented CI/CD pipeline using Github Actions and Terraform for automated deployment.

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.