

James Young

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EDUCATION

Boston University

Master of Science in Computer Science

MA, United States

September 2024 – Present

Hong Kong University of Science and Technology

Bachelor of Science in Electronic Engineering, Minor in Information Technology

Hong Kong

September 2020 – June 2024

SKILLS

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

Libraries/Frameworks: React

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

PROJECTS

Bluebike Availability Predictor

bluebikepredictor.jyyolab.com

Python, Flask, EC2, Terraform

- Developed an application that makes real-time future predictions on the number of available Bluebikes at 3 bike stations near my home using machine learning.
- Employed Random Forest for prediction model trained with monthly Bluebike historical ridership data alongside temperature and precipitation data.
- Added web interface using Flask to display predictions and data visualizations, deployed with Docker on EC2 with Terraform.

Serverless Face Blurrer

faceblur.jyyolab.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

CERTIFICATIONS

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

EXPERIENCE

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

HKUST Varsity Soccer Team

Sept 2021 – June 2024

NCAE Cyber Games (CTF Competition)

February 2025 – March 2025