James Young

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EDUCATION

Boston University	MA, United States
Master of Science in Computer Science	*September 2024 – Present*
Hong Kong University of Science and Technology	Hong Kong
Bachelor of Science in Electronic Engineering, Minor in Information Technology	*September 2020 – June 2024*

SKILLS

Technologies: Python, Typescript, SQL (Postgres), MongoDB, HTML/CSS
Libraries/Frameworks: React, FastAPI, Flask
Platform/Tools: Git, AWS, Terraform, Linux, Docker

EXPERIENCE

Software Engineering Intern — June 2025 – December 2025
Granite Telecommunications — *United States*

- Contributed automation scripts for Linux edge device system and network health monitoring, enabling automatic validation when new images are flashed to reduce manual testing overhead
- Worked on extracting and analyzing NOC ConnectWise ticket data, implementing text embedding and clustering techniques to identify patterns in customer support interactions
- Assisted in developing React and FastAPI internal chat application to interface with company's RAG-based LLM system trained on internal documents

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

PROJECTS

Bluebike Availability Predictor — *bluebikespredictor.jyylab.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.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

CERTIFICATIONS

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

EXTRACURRICULARS

NCAE Cyber Games — February 2025 – April 2025

- Joined NCAE Cyber Games, a cybersecurity and CTF competition where our team competed against other universities and finished 1st in the regionals.