

# James Young

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## EDUCATION

### Boston University

*Master of Science in Computer Science*

MA, United States

*September 2024 – Present*

- **Relevant Coursework:** Analysis of Algorithms, Database Management, Operating Systems

### Hong Kong University of Science and Technology

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

Hong Kong

*September 2020 – June 2024*

- **Relevant Coursework:** Cloud Computing and Big Data Systems, Deep Learning in Computer Vision, Data-Driven Portfolio Optimization, AI for Medical Imaging, Applied Statistics

## SKILLS

**Technologies:** Python, Javascript, SQL

**Libraries/Frameworks:** Numpy, Pandas, Pytorch, Matplotlib, Scikit-Learn

**Platform/Tools:** Git, AWS, Terraform, Linux, Docker, Microsoft Office (Word, Excel, Powerpoint)

## PROJECTS

### Bluebikes Availability Predictor

*bluebikepredictor.jyyolab.com*

*Python, Pandas, Scikit-Learn, Docker, React, Terraform*

- Built a machine learning application to forecast real-time Bluebikes availability for three stations near my home.
- Leveraged historical Bluebikes ridership data alongside temperature and precipitation data for training with Gradient Boosting Regressor model to predict bike rental demand.
- Used Flask to deploy prediction model as an API, added React front-end to display availability forecasts, deployed application with Docker on EC2 with Terraform.

### Serverless Face Blurrer

*faceblur.jyyolab.com*

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

- Developed a full-stack application that automatically blurs faces in images uploaded by users.
- Frontend built with React, middleware uses Lambda, Rekognition, SQS for event-driven architecture, backend uses S3 bucket with job queues stored in DynamoDB.
- Deployed the application using Terraform with CI/CD implemented with Github Actions.

## EXPERIENCE

### Software Developer Intern

December 2023 – February 2024

*Intelligent Design Technology Limited*

*Hong Kong*

- Developed a prototype for real-time human fall detection on a Raspberry PI using Python.
- Utilized OpenCV for video capture, Tensorflow for pose estimation, and heuristics between poses to classify fall

### IoT Intern

December 2022 – May 2023

*Spotless Tech Limited*

*Hong Kong*

- Implemented C++ libraries for reading and sending water sensor data to AWS IoT with MQTT, achieved 20% power consumption reduction by implementing light sleep intervals on ESP32.

## CERTIFICATIONS

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

## 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.