Tzu-Huan Yu
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EDUCATION

Boston University Sep 2022 – Jun 2024
Master of Science in Computer Sciences

KEY SKILLS

Programming Language:
- Proficient: Java, Python, SQL, bash,
- Familiar: HTML, CSS, JavaScript, MongoDB

Skills:
Gitlab, Airflow, GCP(Google Cloud Platform)

PROFESSIONAL EXPERIENCE

Shopee **(a multinational technology company which specialises in e-commerce)**, Taiwan Apr 2022– Aug 2022
Software Engineer (Tech Team) (full-time)

"Automatic email sender" **SAVE 85% time per month**
- Automatically send email to an agent every month (agent's monthly KPI from database). Supervisors no longer need to copy KPI from the database and send an email manually. The user can still adjust the details in the email through the GUI by this application.

"Task assignment system" **SAVE 40 minute per day**
- Develop a script deployed on Airflow that can automatically assign each agent's tasks at each time, following the complex logic of manual task assignments. (with Google Sheet API).

"Fake Receipt Detector"
- Using the Cloud Vision API to detect the text on the receipt, combined with the experience of the specialist in reviewing the receipt, convert those experience into code, develop an application that can detect the risk of receipts.

Earthquake Physics and Seismotectonics Research Group, Taiwan Jul 2021– Dec 2021
Research Assistant (full-time)

"Application of Borehole Seismograph on Earthquake Early Warning System" (with two advisors)
- Used Python to establish a magnitude estimation empirical formula for borehole stations; standard deviation of magnitude estimation was 0.22 while that for the current Earthquake Early Warning System was 0.43, which means a better range of estimation error.
- Estimated earthquake magnitude on a C-based system, accelerating estimation by about one second.
- Cleaned problematic data from 9,060 pieces of data over the previous four years with an automated tool (Python).
- Presented the results at the ***2021 Annual Conference of Geological Society Located in Taipei & Chinese Taipei Geophysical Society.***

SIDE PROJECTS

Drum Kit (link)
- A webpage can emulate the drum by keyboard, using HTML, CSS, Javascript.

Flappy Bird Clone (link)
- 80% similar to real-world Flappy Bird but code by myself. Assets download from the Internet.
- This is a project for me to learn Android Studio with JAVA and libGDX.

COURSE PROJECTS

Machine Learning (Python)
- Predicted returns on loan investments and decided whether to approve loans, with accuracy of 75.6%
- Investigated the correlation between salary and stats of FTA, FTM, PTS, FGA, and FGM for NBA players

Database Management (SQL)
- Established an E-R diagram of delivery platform (eight tables) and wrote 12 stored procedures

Computer Architecture - Pipeline Simulate (JAVA)
- This program will have 4 registers, which will set up as structures with a READ and a WRITE version for each
- Each pipeline register's structure will be different and will be based on the information being passed from the previous stage (just like in the real world)