CHI, Ting Hsuan

+852 63688614 | thchi102@gmail.com | linkedin.com/in/ting-hsuan-chi-thchi102 | github.com/thchi102

Education

Hong Kong University of Science and Technology CGA:3.696/4.3
BEng in Computer Science, with an additional major in Electronic Engineering *Sep. 2021 - Jun. 2026*

Awards

Awards: HKUST **Admission Scholarship**, 4 times **Dean's List**, 3 times **Continuing Scholarship** recipient
Competitions: HKxAI Open Cup **Finalist (Top 8)**, MATE ROV Hong Kong Regional **Champion**

Experience

AI Engineer Jun. 2024 - Sep. 2024
AI Guided Limited *Hong Kong*

- **Reduced existing face recognition program size by 500%** by integrating lightweight models.
- **Increased traffic light classification accuracy from 78.2% to 97.1%** by training a YOLOv8 model with custom augmented traffic light dataset.
- Achieved local execution of Visual SLAM tools by configuring **customized docker containers.**
- Conducted research on **10+** state-of-the-art **Visual-SLAM algorithm** for future development.
- **Leveraged OpenAI and GCP API with FastAPI** to achieve real time object recognition and generate text descriptions.

Software Engineer Jan. 2023 – Jun. 2024
HKUST Robotics Team (ROV) *Hong Kong*

- **Achieved communication between 5+ devices** by implementing Control Area Network (CAN) protocol
- **Automated object recognition tasks to save more than 50% of time** to complete a task with OpenCV
- Migrated the codebase from ROS1 to ROS2

Software Engineer Dec. 2022 – Jan. 2023
Prodigy Electronics *Hong Kong*

- Self-developed a **people counting device with 5+ functionalities** by integrating multiple modules
- Achieved people counting with ToF sensors by research and implement people counting algorithms
- Developed a working people counter prototype **within a month**

Projects

Stock Price Prediction | *Python, YFinance, Keras, TensorFlow, GAN* Spring 2024

- Achieved average **prediction error within 10 dollars** by implementing LSTM and GAN model
- Quantitatively analyze and predict the market with **10+ indicators and market sentiments**
- Integrated **40000+ tweets and 3500+ data points** to perform training

Image Style Transfer | *Python, Keras, TensorFlow, CNN* Spring 2024

- Achieved image style transfer with the **convolutional neural network** to generate style transferred images
- Increase the dataset size by **400%** with data augmentation

Technical Skills

Language: Python, C++, C, Solidity, Javascript, MySQL, Arduino, Assembly Language
Frameworks: ROS, ROS2, Node.js, FastAPI
Developer Tools: Git, Docker, Google Cloud Platform, VS Code, Eclipse

Leadership/Extracurricular

Deputy Head Student Ambassador Jun. 2022 - Present
The Hong Kong University of Science and Technology *Hong Kong*

- Held and assisted with various **international promotions and activities** for HKUST as an ambassador

External Vice President Jun. 2022 - Sep. 2023
HKUST Taiwanese Students' Assiciation *Hong Kong*

- **Led a committee of 7 people** to hold activities and interact with various authorities as TSA representative