Tsang Hong Ting

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EDUCATION

Hong Kong University of Science and Technology

Bachelor of Engineering, Major in Computer Science, Minor in Robotics

Master of Philosophy in Computer Science and Engineering

Sep 2024 - May 2026 (Expected)

Sep 2020 - May 2024

GPA: 3.605 / 4.3

Notable coursework:

- UROP2100 Undergraduate Research Opportunities Ongoing research on Hyper Knowledge Graph Complex Query Answering
- COMP4222 Machine Learning with Structured Data: Venture Capital Link Prediction
- COMP4981 Final Year Project: Leveraging GPT Technologies to Enhance English Education: A Web Application for Secondary School Students

Exchange Program: HKUST School of Engineering Undergraduate Outbound Exchange Program: The University of Texas at Austin (United States) Jan 2023 - May 2023

Work Experience

Intelligent Design Technology limited

Hong Kong

Software Developer (Summer Intern)

Jun - August 2022

• Design, develop, implement application on Robot running Android system, with Google Speech-To-Text API for child education. Draft user manual and project documentation with flow graph included.

LEADERSHIP AND EXTRA-CURRICULAR ACTIVITIES

HKUST Robotics Team

Head of Software Engineering Department

Dec 2021 - Dec 2022

- Programmed robot using STM32 low-level C Programming collaborate with Python applications for Image Processing.
- Implementing project milestones and allocate tasks according teammates characteristics. Organize regular meeting and manage weekly progress.

Undergraduate Research Opportunities Program: Indoor Localization and Mobile Computing June - Dec 2022

• Develop android application for mobile computing with R&D team and assist with backend development using Flask. Research working on smooth transition from indoor to outdoor positioning.

Undergraduate Research Opportunities Program: Graph Machine Learning for Logical Reasoning June 2023 -Present

• Exploring the integration of logical reasoning with machine learning, with an emphasis on graph machine learning. Conduct research by reading relevant papers, designing algorithms, conducting experiments, and drafting papers.

Projects

Venture Capital Link Prediction | Python & Graph Neural Network & Machine Learning & DGL

Nov - Dec 2022

- Construct Link prediction model for investment prediction between Start-ups and investors
- Utilizing GNN methods for aggregating hidden information in data to create investment prediction models. Models included: GCN, ChebNet, GraphSAGE, Matrix Factorization, VGAE, etc.

Morts Object Detection (ROV) | Machine Learning

Nov - Dec 2021

• Using TensorFlow zoo library pre-trained model with data set created using Roboflow to train and create morts fish detection model.

Remotely Operated Underwater Vehicle | Embedded C Programming & Python & STM32 & ROS | Feb 2021 - Jun 2022

- Build software for low-level controlling board. Construct message passing system between robot and computer
- Image Processing program using C++ and Python. Construct GUI with Vue framework for robot driver.

AWARDS AND SCHOLARSHIPS

2022 MATE World Championship ROV Competition – TELEPRESENCE-4th in Global

2021

• Software development and Product presentation in competition, demonstrating features and strength of our ROV.

HKSAR Government Scholarship Fund - Reaching Out Award

2022 - 232021-23

University's Scholarship Scheme for Continuing Undergraduate Students

2021-22

HKSAR Government Scholarship Fund - Talent Development Scholarship

Dean's List

2020-21 Spring, 2021-22 Spring

TECHNICAL SKILLS

- ullet Computing Language: Extensive Experience Proficient $C, C^{++}, Python, Java, SQL$. Beginner HTML, CSS, Javascript, Kotlin
- Programming Framework: Extensive Experience Proficient TensorFlow, PyTorch, DGL, NumPy, Matplotlib. Beginner Vue, React
- Development Tools: Extensive Experience VsCode, Git, Github, Android Studio.
- Language: Native Cantonese. Fluent English and Mandarin.