

# TAM, Ka Ho Sam

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## Skills

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Programming	Python, Java; C/C++
Web & Backend	Flask, MySQL; Git, Docker, Linux; HTML/CSS, JavaScript; React (less familiar)
AI/ML	PyTorch, TensorFlow, Keras, Pandas, NumPy, OpenCV, Matplotlib
Specializations	Computer Vision (ResNet, U-Net, ViT, GANs, Diffusion), Natural Language Processing (LSTM, BERT, LLaMa), Reinforcement Learning (DQN)

## Education

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The Chinese University of Hong Kong Expected Jul 2025

### B.Eng. in Artificial Intelligence: Systems and Technologies

- **CGPA:** 3.755/4.000, **Major GPA:** 3.795/4.000
- **Awards:** *Dean's List*: 2021-22, 2022-23, 2023-24; *CSE Outstanding Academic Performance (Bronze)*, 2023-24
- **Leadership:** Served as Academic Secretary of The 43rd Bethlehem Hall Resident Association, 2022
- **Relevant Courses:** Python, C++, Statistical Analysis, Time Series, Applied Deep Learning, NLP

## Work Experience

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Machine Learning Intern, Glassbox AI Limited, Sha Tin Jun 2024 – Nov 2024

- Developed a backend pipeline for automated data fetching from APIs and performing LLM inference using **Python, Flask, and MySQL**
- Implemented and trained **RNN-based models** for sign language translation tasks
- Researched methods for temporal alignment on gesture sequences

## Projects

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Final Year Project: Invariant Hand Gesture Representation Learning with Contrastive Learning 📺 | PyTorch Sep 2024 – Apr 2025

- Enhanced model generalization over unseen data classes (static hand gestures) with few-shot inputs
- Implemented curriculum-based augmentations (**curriculum learning**) with large unlabelled synthetic datasets (MANO) alongside labelled data
- Explored **temporal contrastive learning techniques** on dynamic gesture recognition by testing on LSTM

Exploring and Applying Computer Vision Techniques | Python, PyTorch Jun 2023 – Apr 2024

- Evaluated generalizability of **Vision Transformers (ViTs)** on small-scale datasets compared to CNNs 📺
- Improved stability of instance tracking on video using **YOLOv8**-based object detection with custom algorithm 📺

Android Event-Planning App 📺 | Java Mar 2023 – Jan 2024

- Managed end-to-end **software development cycle** from UI design, core functions to backend integration
- Optimized data handling with RoomDatabase and **SQL** queries

Deep Q-Learning Agent for Third-Person Shooter Game 📺 | Python, Keras Oct 2022 – Dec 2022

- Collaborated in a team of 2 to create a custom Python Gym environment for a 2D third-person shooter game
- Implemented an AI agent with **Deep Q-Network** that increased average kill streak by 30× and extended survival time by 4× over baseline

## Languages

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- Cantonese (Native), English (Fluent), Mandarin (Native)