CHEAH YEOK TATT

Communicative Machine Learning Software Engineer, 3 YOE

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EDUCATION

University College London — *MSc in Machine Learning*

September 2024 - May 2025

Relevant Subjects: Statistical Natural Language Processing, Open-Endedness and General Intelligence, Probabilistic and Unsupervised Learning (Gatsby), Supervised Learning, Bayesian Deep Learning, Machine Learning Seminar, Applied Deep Learning, Reinforcement Learning (Deepmind).

Hong Kong Polytechnic University

— BEng (Hons) Electronic and Information Engineering

September 2018 - July 2022

2:1 Honors, 4th year GPA 3.89/4.00. HKJC Full Scholarship and Maycham Student Trust Fund Scholarship recipient.

EXPERIENCE

Hong Kong Polytechnic University
— Project Consultant

March 2023 - November 2024

Develop AI enabled on-stage announcer system and relational database for administrators used for over 20,000+ graduates with **Azure Speech Studio's API, SQLite and HuggingFace Models**[Link]

Hong Kong Centre for Logistic Robotics
— Software Engineer

September 2022 - September 2024

In Prof YH Liu's team, delivered two major robotic projects as SWE. Develop, deploy and maintain software and deep learning pipeline on computer vision. **Used CoTracker and Segment Anything Model, Pytorch and ONNX pipelines extensively**. Contributed in research.

Hong Kong Polytechnic University
— *Research Assistant*

May 2021 - July 2022

Develop and maintain deep learning and ETL pipeline for over 5TB high dimensional data on transform, clean, segment, check [Link]

Mini-circuits — Research Intern

December 2020 - February 2021

Experiment & optimize chip's real-time transfer rate by 10x [Link]

CONFERENCES AND PUBLICATIONS

AHFE Conference Paper – Approach for evaluating breast motion for sports bra design (2024) [Link]

RSS International Conference Oral Presentation - Maniskill2 Challenge (Generalizable Robotic Deep Learning Benchmark) - 1st Runner Up, (2023) [Link]

US Patent - Artificial Intelligence Assisted Personal Training System, Personal Training Device and Control Device (2023) [Link]

AHFE Conference Paper - Prediction of Muscle Fatigue During Dynamic Exercises based on Surface Electromyography Signals Using Gaussian Classifier (2022) [Link]

SKILLS

Python, C++, Docker, Linux, Pytorch, Tensorflow, Deep Learning, Machine Learning, Computer Vision, Pattern Recognition, Natural Language Processing, Azure, GCE, Extract Transform Load, Data Augmentation, Data Warehousing, Test and Evaluate, Deploy Deep Learning (ONNX, TorchServe), Robotics, Pose Estimation

AWARDS AND TECHNICAL PROJECTS

University College London ISD Hackathon - Most Innovative Award. Project: LLM hackathon mentorship platform (2024)

Build With AI Hackathon by Google Developers Group Hong Kong - 1st Runner Up. Project: Effective and scalable House-Tree-Person Test with Vision Language Models (2024) [Link]

Honors Project - A+, Technical Excellence Award (Top 3). Project: Modified Car Engine Recognition with Deep Neural Networks (2022) [Link]

IBM Data Engineering Professional Certificate (2024)

COMMUNICATION AND LANGUAGES

Design and coordinate: 100-Day Young Engineer's Makerthon [Link]

Published on Inscribe Journal: Considering a shared future between humans, post-humans and AI [Link]

Published International Service-Learning 2019: Selected Case Studies [Link]

Reinforcement Learning **Reading Club** (05/2021–11/2021) [Link]

MIT Entrepreneurship and Maker Skills Integrator (01/2021) [Link]

Founder, Ex-president, Ex-coach, Adjudicator - English Debating Club, Chung Ling Private High (2015 - 2018)

Native English proficiency (IELTS 8.5), Mandarin, fluent in Cantonese, Malay