

TAN Weile

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EDUCATION

- **Hong Kong University of Science and Technology** Hong Kong SAR
Doctor of Philosophy in Computer Science and Engineering *Sep 2024 - Current*
- **Hong Kong University of Science and Technology** Hong Kong SAR
Bachelor of Science in Data Science and Technology; CGA: 3.77; Major CGA: 3.84 *Sep 2020 - Jun 2024*
- **University of California, Santa Barbara** Santa Barbara, USA
HKUST School of Engineering Undergraduate Outbound Exchange Program; GPA:4.0 *Jan 2023 - March 2023*

RESEARCH EXPERIENCE

- **Undergraduate Research Opportunities Program (UROP1100H)** HKUST
Project: Knowledge Discovery over Database Supervisor: **Prof. Raymond Chi-Wing Wong** *Aug 2022 - Sep 2024*
 - An research project about enhancing the performance of session-based recommendation systems.
 - Our research paper has been accepted by ICDM2024 as a regular paper.
- **CSE/CPEG Final Year Project (COMP4981)** HKUST
Project: Human-AI Collaboration in Data Science Supervisor: **Prof. Xiaojuan MA** *Apr 2023 - Aug 2024*
 - An undergoing project about designing a user-friendly video-generation system based on several GenAI models.
 - Deploy and Integrate different large-scale GenAI models including ChatGPT, AnimateDiff (for video generation), and AudioCraft (for music generation).
- **Undergraduate Research Opportunities Program (UROP1100J)** HKUST
Project: Research in AI and Machine Learning Supervisor: **Prof. Tong Zhang** *Mar 2023 - Aug 2023*
 - Contribute to developing LMFlow - an extensible, convenient, and efficient toolbox for finetuning large language models.
 - Project Github link: <https://github.com/OptimalScale/LMFlow>
- **Undergraduate Research Opportunities Program (UROP1000)** HKUST
Project: Geometric Flow Supervisor: **Prof. Frederick Tsz-Ho Fong** *May 2021 - Sep 2021*
 - Participated in the research of pure mathematics by reading some journal papers under the guidance of the supervisor.

INTERNSHIP EXPERIENCE

- **SOCIF Limited, Hong Kong Science Park** Hong Kong SAR
AI Engineer Intern *Jun 2023 - Aug 2023*
 - Develop end-to-end solutions for automatic license-plate recognition, face recognition, and garbage disposal detection.
 - Acquire substantial experience in building machine learning models using various machine learning frameworks, including PyTorch and TensorFlow.
- **DRESIO Limited, Hong Kong Science Park** Hong Kong SAR
AI Engineer Intern (Image Processing) *Jun 2022 - Aug 2022*
 - Building machine learning pipelines for human body language detection and classification using a series of open-source tools, libraries, and frameworks, including MediaPipe, scikit-learn, pandas, pygame, and OpenCV.
 - Develop end-to-end software to assist elderly people in exercise based on the machine learning models.

HONORS AND AWARDS

- Active member of the S.S. Chern Class in HKUST
- Got the University's Scholarship for Continuing Undergraduate Students
- Obtained the Dean List Award in 4 semesters
- Won the first prize of the 35th Chinese Physics Olympiad in Guangdong

SKILLS SUMMARY

- **Programming Languages:** C++, Python, Java, Kotlin, SQL, Matlab, R
- **Proficient Libraries:** TensorFlow, PyTorch, pandas, numpy, scikit-learn, pygame
- **Languages:** Mandarin(native), Cantonese(native), English(good command, IELTS 7.0)

EXTRACURRICULAR ACTIVITIES

- **Peer Mentor of Mainland Students and Scholars Society, UG Section** Hong Kong SAR
Hong Kong University of Science and Technology *Jun 2020 - Jun 2023*
 - Acted as a team leader in the orientation activities to help freshmen get familiar with the daily life in HKUST
 - Provided Cantonese workshops to teach mainland first-year students how to communicate with local people
- **Vice President of Rubik's Cube Association** Guangzhou, China
Guangdong Experimental High School *Sep 2018 - Sep 2019*
 - Led team members to promote activities, including operating the association's WeChat official account and making posters.
 - Organized the 2nd and 3rd World Cube Association Guangdong Experimental High School Open Championship