Wang "Melvin" Ming

BSc (Hons) in Computer Science The Hong Kong Polytechnic University, Hong Kong ♥ Personal Website: https://melvin-king.github.io

EDUCATION

The Hong Kong Polytechnic University, Hong Kong Bachelor of Science in Computer Science	2020-2024 Graduated with Second Class Honours Division I
University of Cambridge Mathematics for Engineers Programme	2022 Certificate Granted
Chengdu No. 7 High School High school diploma	<i>2017-2020</i> Graduated
Experience	
 Department of Computer Science and Engineering, CUHK Co-researcher Coding intelligence analysis for Multimodal LLMs Data Collection and Processing, Evaluation, Benchmarking 	March 2025 - present Hong Kong
 Department of Computing, PolyU Research Assistant (Full-time) – Temporal Graph Neural Network (TGNN), Link Prediction and – Model Testing, Evaluation Baseline testing and Benchmarking 	June 2024 - September 2024 Hong Kong Node Classification
Code for Asia Ltd. Student internship – Front-end Development – AI Problem-solving Architect	June-August, 2023 Singapore
 Department of Building and Real Estate, PolyU Research Assistant (Part-time) LLM-driven Online Social Network Analysis Data Retrieval, Large Language Model, Social Network Analysis 	April 2023- June 2024 Hong Kong s, Paper Completion

PUBLICATIONS & PREPRINTS

•J. Xiao, M. Wang, M. H. Lam, Y. Wan, J. Liu, Y. Huo and M. R. Lyu, "DesignBench: A Comprehensive Benchmark for MLLM-based Front-end Code Generation", in arXiv preprint, 2025, doi: 10.48550/arXiv.2506.06251

Keywords: MLLM, Code Inteligence, Software Engineering, Benchmark

•M. Wang, R. Ma, G. Q. Shen and J. Xue, "How Large Language Model Empowers the Analysis of Online Public Engagement for Mega Infrastructure Projects: cases in Hong Kong", in IEEE Transactions in Engineering Management (IEEE-TEM), 2025, doi: 10.1109/TEM.2025.3553595

Keywords: Large Language Model, Social Network Analysis, Public Engagement, Mega Projects

•R. Ma, G. Q. Shen, P. Lou and M. Wang, "Large Language Model-based data-driven framework for digital transformation in construction industry," in 2024 Conference on ASCE Computing in Civil Engineering (i3CE), Pittsburgh, United States

Keywords: Large Language Model, Digital Transformation, Engineering Management

PERSONAL PROJECTS

•Robotic-guided Self-help Telerehabilitation in Metaverse for stroke patients

 $Aims \ to \ build \ a \ VR \ Metaverse \ system for \ elderly \ rehabilitation \ training.$

- Tools & technologies used: Leap Motion, Unity, UART for data transmission
- The forearm we arable device is developed by PolyU BRE

•LLM-empowered Family Healthcare Management System

 $A\ smarter\ family\ healthcare\ system\ with\ personalized\ medical\ inquiry\ and\ app\ operation\ via\ word\ inputs.$

– Tools & technologies used: Python, Java, LLM, Prompt Engineering

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 C GitHub Profile
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 InkedIn Profile

March - May 2023

January - March 2024

TECHNICAL SKILLS AND INTERESTS

Languages: English, Mandarin, Cantonese Developer Tools: PyCharm, VSCode, IntelliJ IDEA Programming Languages: C/C++, Java, Javascript, Python, R Libraries: Torch, Tensorflow, NetworkX, Sklearn, Pandas, Matplotlib, Seaborn Operating Systems: Windows, Linux Areas of Interest: GNN, LLM, Knowledge Graph, Social Network Analysis

Positions of Responsibility

•Student Ambassador, Amazon Web Services(AWS)	2023-2024
•First Aid Brigade Member, Hong Kong St. John Ambulance July	2024-Present
ACHIEVEMENTS	
•Certificate of Outstanding Contribution, AWS Student Ambassador Programme	2023
•Excellent Teaching Team, STEM Education for Children, PolyU Service Learning Programme	2022
•3rd Prize, National Olympics for Informatics in Provinces (NOIP), China	2018