FU Tianlin

Telephone: 086-15960935014   Email: tianlinfu2-c@my.cityu.edu.hk   WeChat: NeoX2003

Educational Background

City University of Hong Kong, Hong Kong, China   **09/2025 - 07/2026**
- Major: MSc Business Information Systems (Financial and Intelligent Technology Stream)

Minjiang University, Fujian, China   **09/2021 - 06/2025**
- Degree: Bachelor of Engineering (Minor degree in Economics)
- Major: Software Engineering   GPA: 89.03/100, 3.76/5.0   Ranking: 1/63
- Minor: Finance   GPA: 88.82/100, 3.87/5.0   Ranking: 1/63
- **Scholarships and Honors:**
- National Scholarship of China, 2023-2024, Top 0.2% of Undergraduates Nationwide
- First Prize, National Level, 17th Chinese Collegiate Computing Competition, 2024
- First Class Scholarship, Minjiang University, 2022-2025(three consecutive years)
- Excellent Class Leader & Merit Student, Minjiang University, 2021-2024(three consecutive years)
- Outstanding Graduate | Excellent Graduation Thesis, 2024-2025

Research Experience

FinTechX: A Comprehensive AI-Powered Financial System(Accepted as an EI-indexed conference paper; expected in print by 2026.)
- Designed system architecture based on Customer Journey Design, aligning features with user behavior stages.
- Built backend with Django (AI integration, quant analysis) and SpringCloud (microservices, high concurrency).
- Developed frontend using Vue.js for real-time data interaction across modules.
- Ensured closed-loop data flow for user experience and functional coherence, with a focus on stock order matching, simulated stock trading, AI-powered research reports (crawled via crawler), and quantitative data analysis.

Benchmarking Single Image Dedusting (Accepted for publication, expected in print by late-2025)
- Developed the Realistic Single Image Dust Removal (RSIDR) dataset, a large-scale synthetic benchmark designed to address key challenges in image dedusting
- Conducted extensive experiments to study and evaluate the latest image enhancement methods for image dedusting, using both full-reference and no-reference Image Quality Assessment (IQA) techniques
- Authored a research paper analyzing experimental results, outlining the strengths and limitations of current algorithms, and suggesting future research directions.

Medical AI for ECG Image Recognition   **06/2023 - 12/2023**
- Annotated a dataset of ECG images to train deep learning models for detecting various cardiac conditions.
- Designed and optimized neural network models to emulate medical expert diagnostic reasoning, improving the accuracy of automated ECG interpretation.
- Conducted validation tests to benchmark model performance against traditional diagnostic methods, documenting strengths and areas for improvement.

HRTS: Hierarchical Rauch-Tung-Striebel Smoother With Online Learning Priors for EEG Denoising 01/2023 - 09/2023
* *Publication*: EI Journal *"Journal of Network Intelligence" (https://bit.kuas.edu.tw/~jni/2024/vol9/s2/03.JNI-S-2023-06-009.pdf)*
- Explored and implemented advanced Kalman filter techniques (HRTS) for EEG signal denoising, focusing on online learning-based priors.
- Led experimental design and data analysis, achieving significant improvements in the EEG noise reduction performance
- Contributed to the publication by authoring sections on methodology and summarizing key research findings

Personalized Image Aesthetics Research   **06/2022 - 12/2022**
- Developed a personalized image aesthetics assessment framework to evaluate image enhancement algorithms like denoising, deraining, and defogging.
- Conducted a literature review to integrate recent advancements in image aesthetics into novel assessment methods.
- Performed empirical testing and analysis, providing a foundation for improving algorithm performance based on aesthetic-driven feedback.

Representing Scenes as Compositional Generative Neural Feature Fields Based on GIRAFFE for 3D Reconstruction of Classroom Scenes   **06/2022 - 12/2022**

* *Publication: International Conference on Intelligent Information Hiding and Multimedia Signal Processing. (https://link.springer.com/chapter/10.1007/978-981-99-0105-0_21)*
- Led the project as the first author, leveraging the GIRAFFE framework to develop compositional generative neural feature fields.
- Enhanced algorithms for 3D reconstruction of classroom scenes, significantly improving the accuracy and processing efficiency.

Research on Fast Encryption of Electronic Health Record Data Based on Privacy Protection   05/2022 - 11/2022
* *Publication: Presented at the EI Conference on IoT and Big Data Technologies for Health Care, published in LNICST Volume 501 (https://link.springer.com/chapter/10.1007/978-3-031-33545-7_18)*
- Developed an efficient encryption algorithm that strengthens the security of electronic health records while preserving user privacy.
- Conducted thorough testing and optimization of the algorithm, resulting in its adoption for real-time data encryption.

Work and Professional Experience

Industrial Digital Financial Services Co., Ltd.   03/03/2025 - 28/03/2025
Position: Fintech Intern   -Retail and Wealth Center Content Management Platform Construction
- Participated in requirements research for an enterprise-level marketing strategy operation management platform
- Developed back-end interfaces for the Content Center, including message module CRUD functions, timed deletion tasks, and unit testing
- Wrote interface documents and user help guides

Industrial Digital Financial Services Co., Ltd.   07/2024 - 11/2024
Position: Fintech Intern   -Call Center Customer Relationship Management Platform Construction
- Based on Société Générale's JUP development platform, assisted in designing and developing system functions
- Database Slow Query Optimization: Optimized 168 SQL queries to address performance issues and improve database query speed
- Data Standardization: Participated in the bank's data standardization initiative, completing the cleansing and standardization of over 600 data items
- Cloud Native & DevOps: Learned and applied Docker and Kubernetes, and contributed to the initial optimization and implementation of the bank's DevOps process

Industrial Digital Financial Services Co., Ltd.   07/2023 - 08/2023
Position: Fintech Intern   -Human Resources Department
- Developed and refined training systems, overseeing training for over 160 new employee.
- Conducted software requirement research for digital management platforms, enhancing course assessment frameworks.
- Authored a comprehensive 20,000-word analysis report on training outcomes.

Technical Skills

- Programming Languages: Java, Python
- Frontend Development: Vue.js, HTML, CSS, JavaScript
- Backend Development: Spring Cloud, Spring Boot, Django, REST API design
- Databases: MySQL, Oracle, Neo4J
- Other Skills: PyTorch, Artificial Intelligence Algorithms,Web scraping, software testing, project quality management, Git

Other Information

- Language Proficiency: Mandarin (Native proficiency), English(Advanced)
- Certification: IELTS: 6.0 | CET-4: 519 | CET-6: 511