

TAN XUE WEN

Email: tanxuewen10@gmail.com

Mobile: +65 97114866

WORK EXPERIENCE

Manager, Artificial Intelligence

July 2025 – Present

Infocomm Media Development Authority, BizTech Group - Labs

- Lead agentic AI strategy across development, due diligence and safety initiatives
- Drive ecosystem growth through applied research, grants and community collaboration programs
- Identify and evaluate emerging AI technologies and startups to strengthen the national AI position

Artificial Intelligence Doctoral Researcher

Aug 2021 – Aug 2025

Asian Institute of Digital Finance, National University of Singapore

- Developed state-of-the-art ML and generative AI models for risk classification, fraud detection, and explainable financial information extraction
- Contributed to research, teaching, and publications at top-tier conferences

Technology Management Associate (SEED)

Aug 2019 - Aug 2021

DBS Bank

- Led end-to-end digital solutions for Institutional Banking Application IDEAL
- Developed RESTful APIs (Spring Boot, IBM MQ, Apache Web Server, Tivoli Batch Scheduler), CI/CD pipelines (Jenkins, Bitbucket, Nexus, SonarQube, HP Fortify) & oversaw RPCCB for project cutover
- Drove weekly change deployments on IDEAL, a customer-facing, MAS-regulated Critical Information Infrastructure (CII) platform, while ensuring zero projection issues and continuous reliability

Microchip Design Engineering Intern

Jan 2018 - Jun 2018

MediaTek

- Specialized in physical design automation and low-power VLSI, optimizing placement, routability, and power analysis with EDA tools and scripting
- Co-developed a graph-theory-based power analysis tool, published at SNUG 2018

EDUCATION

National University of Singapore

Aug 2021 - Aug 2025

Doctor of Philosophy - PhD, Digital Financial Technology

- GPA: 5.0 / 5.0
- Thesis: Human-Centered AI for Informed Financial Decision-Making
- Supervisor: Professor Stanley Kok, School of Computing
- First-ever interdisciplinary PhD program combining finance and computer science

National University of Singapore

Aug 2015 - Aug 2019

Bachelor of Engineering - BE, Electrical Engineering

- GPA: 4.7 / 5.0, First Class Honours, Dean's List

PUBLICATIONS

- ScamGPT-J: Inside the Scammer's Mind, A Generative AI-Based Approach Toward Combating Messaging Scams, *Proceedings of International Conference on Information Systems (ICIS) 2024*
- Explainable Risk Classification in Financial Reports, *Proceedings of International Conference on Information Systems (ICIS) 2023*
- SMARTe: Slot-based Method for Accountable Relational Triple extraction, *arXiv:2504.12816*
- Explainable AI for Comprehensive Risk Assessment for Financial Reports: A Lightweight Hierarchical Transformer Network Approach, *arXiv preprint arXiv:2506.23767*

- Anticipate, Simulate, Reason (ASR): A Comprehensive Generative AI Framework for Combating Messaging Scams, *arXiv:2507.17543*

AWARDS & SCHOLARSHIP

- **Academic:** Asian Institute of Digital Finance PhD Scholarship, Alcatel-Lucent Technologies Prize Winner, Final Year Project (FYP) Poster Presentation - 1st Prize Winner, Young Talent Program - Market Immersion, Certificate of Service - ECE Student Council
- **Industry:** First Runner-Up for NUS Fintech Summit 2025 Northern Trust Hackathon, WorldQuant Challenge Gold Certificate, DBS Application Security Champion 2019, DBS Certificate of Appreciation

CERTIFICATIONS

- Project Management Professional (PMP), Certified ScrumMaster (CSM), AWS Certified Solutions Architect – Associate (SAA-C02), AWS Certified Cloud Practitioner (CLF-C01), DBS Advanced SRE Practitioner Certification, NICF - Cyber Security for ICT Professionals (SF)

SKILLS

- Machine Learning, Deep Learning, Natural Language Processing, Generative AI, Large Language Models, Prompt Engineering, Agentic Frameworks
- Research & Development (R&D), Software Development (Agile & Waterfall Methodologies)
- Python, PyTorch, Cloud Computing

LANGUAGES

- English (Native or Bilingual Proficiency), Mandarin (Full Professional Proficiency)