

TAN XUE WEN

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WORK EXPERIENCE

Manager, Artificial Intelligence Infocomm Media Development Authority, BizTech Group - Labs	July 2025 – Present
<ul style="list-style-type: none">• 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 Asian Institute of Digital Finance, National University of Singapore	Aug 2021 – Aug 2025
<ul style="list-style-type: none">• 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) DBS Bank	Aug 2019 - Aug 2021
<ul style="list-style-type: none">• 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 MediaTek	Jan 2018 - Jun 2018
<ul style="list-style-type: none">• 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 Doctor of Philosophy - PhD, Digital Financial Technology	Aug 2021 - Aug 2025
<ul style="list-style-type: none">• 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 Bachelor of Engineering - BE, Electrical Engineering	Aug 2015 - Aug 2019
<ul style="list-style-type: none">• 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)