

SIQIN WANG

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CAREER OBJECTIVE

Computing-focused candidate with strong academic performance (GPA 4.5/5.0, Master of Computing at NUS) and a solid foundation in finance (MSc in International Finance, Rennes SB). Experienced in Python programming, recommendation algorithms, and financial modeling. Seeking for a Machine Learning Engineering or Backend Engineering internship in 2026 Summer.

EDUCATION

National University of Singapore

Jan 2025 – Present

Master of Computing

- GPA: 4.5/5.0
- Core Courses: Artificial Intelligence, Enterprise Systems Architecture, Computer Systems, Artificial Intelligence, Data Structures and Algorithms, Deep Learning and Neural Network, Software Engineering on Application Architecture, etc.

ESC RENNES School of Business

Sep 2022 – Jun 2023

MSc International Finance (FT Finance Rank: 24)

- GPA: 4.6/5.0 (Rank: 1/116)
- Core Courses: Corporate Finance, Exchange Market, Merge & Acquisitions, Financial Engineering, Quantitative Finance, Coding and Data Science, Derivatives Trading, etc.
- Honor: 2022 Rennes Scholarship

Guangdong University of Foreign Studies

Sep 2019 - Jun 2023

Bachelor of Economics (International Economics and Trade)

- GPA: 3.78/4.0
- Core Courses: International Trade Theory, Accounting, Microeconomics, Macroeconomics, Marketing, etc.
- Honors: 2022 First-class Study Abroad Scholarship, 2021 Comprehensive First-class Scholarship, 2021 Three Good Student Models.

KEY SKILLS

Professional: Python | SQL | VBA | Bloomberg | Word | Excel | PowerPoint

Language: English | Chinese | French (Basic)

Soft: Problem-Solving | Communication | Leadership | Teamwork

WORK EXPERIENCE

Customer Manager (Full-Time)

Apr 2024 – Dec 2024

China Merchants Bank

- Develop solutions for complex financial requirements, overseeing the entire process from client communication and compliance checks, including Anti-Money Laundering reviews, to final implementation in coordination with product teams.
- Responsible for drafting credit reports for corporate clients, conducting in-depth analysis of clients' financial status, operational performance, and funding needs to provide sound credit recommendations.
- Completed due diligence reports, including financial review and risk assessment, to ensure secure and suitable credit decisions.

Investment Manager Assistant (Intern)

May 2023 – Oct 2023

Hiway Capital

- Developed work plans aligned with company strategies, identifying project channels and resources.
- Collaborated with investment manager to discover, develop, and screen potential investment projects.
- Assisted in project establishment and investment demonstration, gaining valuable insights into project development processes.

Analyst (Intern)

Jun 2023 - Sep 2023

Investment Banking Department, China Merchants Securities Co., Ltd.

- Legal Aspects: Contributed to an A-share IPO project by conducting supplier, customer, and related party verification using Qichacha; prepared for legal inquiries by researching and organizing relevant case materials through micro-data platforms.
- Financial Verification: Carried out in-depth travel and cut-off testing of procurement, sales, and R&D activities; completed voucher verification using company's ERP system and original vouchers.
- Project Undertaking: Played a key role in preparation of Pitchbooks and IPO proposal PPTs, focusing on corporate industry research.

PROJECT

MMAdRec: Multi-Modal Advertisement Recommendation System |Competition Project

July 2025 – Sep 2025

- **Architecture Innovation:** Integrated RoPE positional encoding for better sequence modeling. Evolved SASRec baseline with HSTU (Hierarchical Self-attention with Temporal Understanding) blocks using SiLU activation, achieving superior gradient flow and +0.008 HR@10 improvement over original attention.
- **Multi-Modal Compression:** Designed feature-specific autoencoders to compress high-dimensional embeddings, for example, it can compress 4096 dims video embedding to 32 dims), reducing memory footprint by 92% while preserving semantic information.
- **Temporal Modeling:** Added comprehensive temporal features including time-decay, hourly/weekly patterns, and log-scale gaps. It improved performance by 0.007 HR@10. Integrated features via DropoutNet-inspired mechanism, improving cold-start performance by +0.003 NDCG@10.
- **Advanced Negative Sampling:** Implemented popularity-based sampling with O(1) Alias Method and enhanced InfoNCE loss with 10K global negatives. Combined with action-type weighting (click_weight=4.0), achieved +0.013 HR@10 over baseline.
- **Training time optimization:** Moved embedding tensorization into the Dataset class so the model consumes and produces pure tensors. Reduced per-epoch training time from ~1.5h to 40min (-56%) and increased throughput by ~2.25×.

Legal Compliance Detection System with Graph RAG and Human-in-the-Loop |Competition Project

Aug 2025

- **Graph RAG Architecture:** Built dynamic legal knowledge base supporting multi-jurisdictional expansion (USA, EU, California, Utah, etc.) with automatic jurisdiction detection. Integrated HuggingFace BGE embeddings and NetworkX graph structure, enabling hierarchical legal document retrieval with 92%+ relevance accuracy.
- **Confidence-Based Dual Classification:** Implemented two-tier classification system with confidence threshold (0.7) triggering deep reflection analysis. Used Qwen-max LLM for initial assessment and secondary reflection agent, reducing false classifications by 35% and improving legal requirement detection precision to 89%.
- **Human-in-the-Loop Feedback System:** Designed pseudo-RLHF mechanism with vector-based case similarity matching using cosine similarity. Built persistent feedback knowledge base storing human corrections, enabling continuous learning from expert judgments with 78% correction rate integration.
- **Advanced NLP Pipeline:** Developed comprehensive jargon translation system extracting 200+ legal abbreviations (ASL→Age-sensitive logic, GH→Geofencing handler). Implemented multi-pattern regex matching and geographic jurisdiction detection with LLM-powered entity recognition, achieving 98% terminology accuracy.
- **Production-Ready Web Interface:** Built glassmorphism-styled React frontend with real-time analysis visualization and interactive human review modal.