WANG ZHITAN

AI Research Engineer | NLP & LLM Applications | 9 Years of Enterprise AI Development Experience

33 years old | 9 Years' Experience | 18594230912 |
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Core Competencies

- 9 years of AI R&D experience with extensive enterprise-level project experience in NLP, LLMs, and data engineering.
- Participated in the construction of Huawei Financial AI Platform and General AI Platform, involving core technical areas such as LLM fine-tuning optimization, intelligent Q&A systems, knowledge graph construction, and multimodal document parsing.
- Possess full-stack development capabilities from data engineering to model deployment, driving the practical implementation of AI technology in finance, education, and other industries.

EDUCATION

2024.9-2025.9

Hong Kong Metropolitan University

Master of Computing

- Recipient of Katie Shu Sui Pui Charitable Trust Research Scholarship
- Thesis: "Video-based Point Cloud Compression Quality Enhancement Using Deep Learning Approach"

2021.3-2023.6

Sichuan Agricultural University

B.A. in Law

2011.9-2015.6

Liaocheng University

B.Eng. in Engineering

Personal Website

https://www.easonwong0327.com/

Core Technical Stack

AI/ML Frameworks: PyTorch, Keras, Transformers, scikit-learn,RAG, langchain
LLMs: GPT, BERT, LLaMA, ChatGLM, Qwen
Programming Languages: Python, SQL , JAVA
Engineering: ETL Automation, Kettle, MySQL/PostgreSQL/MongoDB
Cloud Platforms: Alibaba Cloud, Huawei Cloud, Google Cloud
Dev Tools: Git, Docker

2025.6-2025.8   **Acao (HK) Ltd.**

WORK EXPERIENCE

AI Engineer (Intern)

Focused on **AI-powered workflow automation**, delivering solutions like **custom RAG** and **speech-to-3D systems** to help clients cut costs and improve efficiency.

2018.4-2024.4   **Shenzhen Chinasoft International Tech Services Co., Ltd.**

Senior NLP Developer

Contributed to the development of **Huawei's Financial AI and General AI platforms**, with work spanning **financial NLP, Chatbot, content security, and image** processing. Enhanced operational efficiency and accuracy by optimizing **LLM** and related systems.

2016.12-2018.3   **Beijing Huibao Haitai Network Tech Co., Ltd.**

NLP Developer

Led **data architecture/ETL** development and contributed to the insurance **Chatbot** backend post-Series B, building the high-performance data pipelines that underpinned rapid business scaling.

2015.9-2016.12   **Beijing Hengchang Litong Investment Management Co., Ltd.**

Data Analyst

Focused on post-lending risk monitoring and core operational **data analysis** to advance data-driven decision-making.

PROJECT EXPERIENCE

2025.6-2025.8   **Acao (HK) Ltd.**
AI Engineer

Custom RAG Solution for Enterprise Document Intelligence
- Architected and delivered a custom RAG system to automate Q&A from complex PDFs for a client, slashing manual data lookup time by 90%.
- Spearheaded client requirement workshops, designing a solution with Paddle OCR parsing pipeline, an LLM-powered knowledge base, and a hybrid ColBERT/Elasticsearch retriever to maximize answer accuracy.
- Engineered a cost-optimized deployment with open-source model fallbacks, ensuring 99%+ uptime while reducing operational costs.

Results: Enabling the client to process large-scale document intelligence tasks efficiently.

Multilingual Speech-to-3D Model System for Education
- Engineered an end-to-end system converting Cantonese, Mandarin, and English speech into 3D-printable models, driving innovation for educational products.
- Architected a modular pipeline integrating speech recognition (Baidu API), semantic understanding (Qwen LLM), and 3D asset generation (Meshy API) for seamless workflow automation.
- Enhanced learning interactivity by providing a tangible, voice-driven creation tool, significantly boosting student engagement and practical application of knowledge.

Results: Achieved end-to-end automated workflow from speech to 3D models.Enhanced student learning experience, optimizing educational product

interactivity and practicality

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<tr><td>2018.4-2024.4</td><td style="text-align:right">Shenzhen Chinasoft International Tech
Services Co., Ltd.</td></tr>
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Senior NLP Developer

Core Developer - Huawei Financial AI Platform

- Spearheaded the intelligent **financial Q&A system**; led the model upgrade from Word2Vec to BERT and implemented a hybrid ranking algorithm, increasing answer accuracy to over 95% and reducing the repeated question rate by 30%, serving 8,000+ daily active users.
- Built a **financial knowledge graph** by applying an NER model to resolve entity boundary ambiguity; constructed a graph with 150k+ entities and 500k+ relationships on Neo4j, boosting query efficiency by 60% via an incremental update mechanism.
- Developed a **Text-to-SQL system** optimized for complex queries, achieving 92% SQL generation accuracy and significantly improving the finance department's data query efficiency.
- Implemented a **multimodal document Q&A system** integrating PaddleOCR for layout analysis and a vector database for retrieval, achieving over 90% answer accuracy and processing tens of thousands of documents monthly.

Algorithm R&D - Huawei General AI Platform

- **Fine-tuned** LLaMA and ChatGLM models for the financial domain using LoRA technology, enhancing their performance on specialized tasks and training efficiency.
- Established a **large model content safety system capable of toxic content detection** (96% accuracy) and hallucination detection (85% accuracy), processing tens of thousands of entries daily.
- Designed an **image data drift detection** solution combining KL-divergence statistical analysis with a VAE model; introduced active learning, which increased annotation efficiency by 40% and achieved a final detection accuracy of 94%.

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Co., Ltd.</td></tr>
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NLP Developer

Insurance Domain Intelligent Q&A System (Simba) & Data Platform Construction
Project Background: Led the data architecture and ETL system development following the company's Series B funding, and contributed to the backend development of an insurance Chatbot system.

- **Intelligent Q&A System (Simba):** Spearheaded the development of an intent recognition module utilizing Word2Vec, cosine similarity matching, and keyword rules, and constructed a dedicated insurance knowledge base. Achieved over 85% accuracy in internal tests, significantly enhancing customer service efficiency.
- **Database Architecture Upgrade:** Led the migration from MySQL to PostgreSQL, optimizing indexes and table structures to significantly reduce query latency and improve system stability and concurrent performance.
- **ETL Automation Pipeline:** Built an end-to-end automated ETL process using Python and Kettle, achieving full-link automated data processing, substantially

reducing manual effort, and ensuring data consistency and processing efficiency.