

CHEN YU-HAO

AI Data Scientist / Engineer



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Core Philosophy & Professional Drivers

Seeking an **AI Engineer** role to leverage hands-on experience in **LLM End-to-End Implementation** and a Systems-Level Thinking approach.

- ****Systems Thinker:**** Believes the true battlefield has shifted to **System Design, Operational Strategy, and Business Model Creativity**.
- ****Pragmatic Execution:**** Rigorously vets ideas based on user needs, cost, and feasibility (e.g., evaluating RAG vs. Fine-tuning benefits).
- ****Rapid Growth & Responsibility:**** Driven by a strong sense of responsibility, translating to a work ethic that is "not afraid of hard work and embraces new challenges head-on." The only fear is stagnation.
- ****Technical Translator:**** Served as the "translator" between technical/AI strategy and business/cross-functional teams (PMs, UX).
- ****Responsible AI:**** Committed to creating AI solutions that are technically robust and focus on **"creating genuine value for users"**.

Core Technical Stack: LLM End-to-End Practice

Category	Key Technologies & Frameworks
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LLM Application	LangChain (Prototyping), LangGraph (Specialized in Agentic Workflows)
Model Optimization/Alignment	RAG , Fine-tuning , RLHF (PPO, GRPO, DPO)
AI System Observability (LLMOps)	LangFuse (Tracing, Debugging, Monitoring performance and cost)
Programming/DB/Backend	Python (Primary), SQL , PgVector , Milvus , ChromaDB , FastAPI , Django
DL/ML/CV	PyTorch , Numpy , OpenCV , CNN, ResNet, YOLO, Machine Learning , Deep Learning



Professional Experience

AI Data Scientist

Zhan Shi Hua Technology (展市華科技有限公司) | 2025/9 – Present

- Developing ****AI-Agent**** and ****RAG**** related technologies.
- Key Technical Focus: [#AI](#) [#PyTorch](#) [#LangChain](#) [#LangGraph](#) [#VLLM](#) .

Associate Engineer (AI Engineer - R&D Alternative Service)

Industrial Technology Research Institute (ITRI, 財團法人工業技術研究院) | 2023/12 – 2025/8

- Core member responsible for ****AI strategy, research, and product implementation****.
- Executed ****GAI model calibration**** using advanced RLHF strategies (Fine-tuning, GRPO, PPO, DPO).
- Designed and implemented GAI applications leveraging [RAG](#), [AI-Agent](#), [AI-Workflow](#), and [Prompt Engineering](#).
- Provided technical leadership, offering AI design methodologies and improvement suggestions to department colleagues.

AI Algorithm Engineer

Evervision Electronics Co., Ltd. (億力光電股份有限公司) | 2023/3 – 2023/10

- Proposed and conducted Demo experiments for the company's future development projects.

Education

Master of Science in Electrical Engineering

National Taiwan University of Science and Technology (NTUST)

Bachelor of Science in Physics

Soochow University (東吳大學)

Key Projects (Selected)

ITRI: Advanced GAI Nursing Summary System (POC)

2024/6 – 2024/12

- **Data Pipeline:** Designed and implemented PDF processing, including high-efficiency **de-identification** to ensure data security.
- **AI Core:** Applied ChatGPT-4o or other LLMs for semantic understanding and information extraction from nursing assessment texts.
- **Feature Engineering:** Developed Prompt Engineering to automatically map text content to standardized nursing features (e.g., activity, pain score).
- **Optimization:** Established standardized testing to validate AI results against nurse reviews, iteratively optimizing LLM prompts and matching models.

ITRI: Smart Customer Service RAG System Development

2025/2 – 2025/8

- Designed and implemented a multi-domain Q&A system based on the **RAG architecture**.
- Employed the **Milvus** vector database for semantic retrieval, improving answer accuracy.
- Established an **LLM routing mechanism** to automatically determine question type and select the optimal data source.

★ Additional Details

- ****Desired Titles:**** AI Engineer, Algorithm Engineer, Data Scientist, Data Analyst.
- ****Target Industries:**** Software/Internet, Telecom, Computer/Consumer Electronics Manufacturing, Semiconductor.
- ****Remote Work:**** Open to remote work.
- ****Language Proficiency:**** Mandarin (Fluent), English (Intermediate), Taiwanese (Intermediate).

"If you are looking for an engineer with hands-on LLM experience, pragmatic systems thinking, and who is driven by a strong sense of responsibility and a passion for growth, I would be very excited to speak with you."