

PROFESSIONAL EXPERIENCE

Sr. Forward Deployed AI / ML Engineer **Hupo** **September 2025 - Ongoing**

Insurance System Migration (European Financial Client)

- Translated ambiguous business requirements into concrete technical scope, owning alignment across product, engineering, and compliance stakeholders.
- Applied machine learning-based clustering to segment and consolidate 200+ legacy insurance products, enabling streamlined product portfolios and improved maintainability.

Enterprise AI Solution (RAG, Multi-Agent)

- Designed and deployed enterprise AI solutions including RAG, and AI-powered roleplay coaching platforms using frameworks such as LangGraph for B2B clients helping accelerate client operational workflows and reduce manual knowledge retrieval effort.
- Engineered scalable ingestion and retrieval pipelines for enterprise knowledge systems, including PDF and unstructured document processing, chunking strategies, embedding generation, metadata extraction, and vector database integration, improving retrieval quality and reducing response latency by ~30%.

Sr. Data Scientist | ML Engineer **SQE** **May 2024 - August 2025**

Enterprise AI Systems (RAG, Multi-Agent)

- Architected and deployed an HR AI assistant handling 10k+ queries/month, automating ~45% of employee inquiries and significantly reducing HR operational workload.
- Built a real-time investment advisory platform integrating external financial APIs, improving analysis speed by ~2x and enabling automated reporting for stock performance.
- Orchestrated multi-agent LLM workflows using LangGraph, enabling structured reasoning and reliable tool usage across distributed AI services.
- Optimized RAG pipelines through advanced chunking, metadata filtering, and re-ranking, improving retrieval accuracy by ~25%.
- Scaled production AI services using Docker, FastAPI, and CI/CD pipelines on Azure, achieving high system reliability and faster deployment cycles.

Data Scientist **Sinarmas Mining** **Oct 2021 - May 2024**

Credit Score Development

- Led end-to-end development of credit scoring models deployed across 12+ financial institutions under Sinarmas Group, improving lending decision accuracy by ~20% and reducing default rates by ~12%.
- Built and deployed ML pipelines on Alibaba Cloud and Cloudera, ensuring model scalability, monitoring, and regulatory compliance.
- Designed feature engineering frameworks for large-scale financial datasets, improving model robustness and interpretability.
- Served as model spokesperson during Otoritas Jasa Keuangan (OJK) audits, presenting methodology and evaluation results alongside the Board of Directors and senior management.

Data Scientist **JD.ID** **Sept 2018 - Sept 2019**

Anti-Fraud

- Developed hybrid fraud detection systems (ML + rule-based), achieving 95% detection accuracy and reducing fraud-related losses by ~30%.
- Built real-time ETL pipelines and dashboards for fraud monitoring, improving operational visibility and response time.

Undergraduate Teaching Assistant **Mercu Buana University** **Sept 2017 - Aug 2018**

- Taught Introduction to Algorithms and Object-Oriented Programming (Python) to undergraduate students.

TECHNICAL SKILL

- AI / LLM Systems:** RAG, LangChain, LangGraph, LlamaIndex, Prompt Engineering, Multi-Agent Systems, OCR/Document Extractions(Azure Document Intelligence), Observability & Eval (Langsmith, Langfuse, Ragas).
- MLOps & Deployment:** MLflow, Docker, CI/CD, Cloud Deployments (Azure, Alibaba Cloud, AWS, GCP), FastAPI, Git, Linux/Shell.
- Data Science & ML:** Scikit-learn, TensorFlow, Feature Engineering, Model Evaluation, Supervised & Unsupervised Learning
- Data & Storage:** PostgreSQL, MongoDB, Spark, Vector Databases (FAISS, Pinecone, Qdrant/CosmosDB).
- Programming:** Python, SQL, Javascript, Html
- Languages:** English (Professional), Mandarin (Intermediate), Bahasa Indonesia (Native).

EDUCATION

Beijing, China **Beijing Institute of Technology** **Sept 2019 - Jul 2021**

- Master of Science, Computer Science | Chinese Scholarship Council Awardee
- Bachelor of Science, Computer Science | Double-degree exchange with Mercubuana University