

TRAN VAN AN

AI Engineer



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EDUCATION

Hanoi University of Mining and Technology

2019 – 2024

Major: Computer Science

Graduation Classification: Engineer - Good

TECHNICAL SKILLS

- **AI/ML:** Expertise in data analysis, data processing, machine learning, deep learning (Neural Networks), advanced RAG, and advanced Prompt Engineering (Step back, Chain-of-Thought, etc).
- **Programming:** Python (main), JavaScript (secondary), etc.
- **Database Management Systems:** MySQL, PostgreSQL, MongoDB, Redis, Cosmos DB, etc.
- **Cloud:** Hands-on experience with Azure (Azure ML, OpenAI, Cosmos DB, etc.) and AWS (SageMaker, Bedrock, S3, etc.).
- **DevOps & Tools:** Docker, Docker Compose, GitLab CI/CD, GitHub Actions, Linux, Bash, Git.
- **Development:** Familiar with Windows, Linux environments.
- **Third-party Payment Services:** Vnpay, Vitapay, etc.
- **Software Design:** Strong grasp of design patterns (Singleton, Factory, Observer, Strategy) and architectural models (MVC, MVT, DDD, Microservices).

WORK EXPERIENCE

TinhVan Software JSC

01/2023 – Current

Position: AI Engineer

- Develop AI models for chatbot systems and document processing.
- Work on RAG technique, query optimization, and backend/frontend development.
- Research and fine-tune LLM/VLM using Azure/AWS Cloud.

PROJECT EXPERIENCE (MAIN PROJECTS ONLY)

DIT AI Research & Integration

05/2026 – Current

- **Project Size:** 04 members
- **Position:** Technical Consultant / AI Supporter
- **Project Description:** Research and experiment with advanced AI agent technologies for a Japanese company. Focus on integrating computer vision and speech processing for meeting analysis and AI-based automated scoring.
- **Job Description:** Supported the team on technical issues. Pre-designed core components to ensure easy maintenance, and provided technical advice and solutions when necessary.
- **Core Technologies:** Prompt Engineering, RAG, Azure Service (Foundry, Cognitive Service, Cosmos, etc.), fastapi, azure agent framework, langchain, etc.

AI Agents for High-Security Oil & Gas Data

10/2025 – 05/2026

- **Project Size:** 03 members
- **Position:** Team Lead
- **Project Description:** Developed a highly secure multi-agent AI platform for managing and analyzing sensitive Oil & Gas data for government-related organizations in Vietnam.
- **Job Description:** Served as the primary technical liaison, managing regular client communications to align business needs with technical delivery. Architected the system's core infrastructure, provided solutions for complex scalability issues, and defined long-term technical strategies. Led the engineering team in implementing advanced multi-agent workflows and core Azure-based services.
- **Core Technologies:** Agent and Multi agent, Prompt Engineering, RAG, Azure Service (Foundry, Cognitive Service, Cosmos, etc.), fastapi, azure agent framework, langchain.

Online Education System

01/2025 – 11/2025

- **Project Size:** 30 members
- **Position:** Developer
- **Project Description:** Enhancing and expanding the platform's features to improve the learning experience and support more subjects.
- **Job Description:** Responsible for developing and implementing features on support services and data management-related services.
- **Core Technologies:** NestJS, React, Flask, Airflow, Minio, etc.

AIRealize

12/2023 – 10/2025

- **Project Size:** 04 members
- **Position:** AI Engineer
- **Project Description:** Developed by Arise Innovation Inc, this system integrates modern generative AI with traditional AI models. Targets high-security data from banks, enabling secure and intelligent analysis of end-user data.
- **Job Description:** Perform data analysis, processing, and evaluation; assess and select LLM models; enhance NLP by combining ML algorithms with prompt engineering; analyze and apply advanced techniques to improve RAG efficiency, etc.
- **Core Technologies:** LLMs, RAG, PE, DA, NLP, ML Algorithms, Flask, Azure Services, etc.

Vision Language Model

10/2024 – 12/2024

- **Project Size:** 04 members
- **Position:** AI Engineer
- **Project Description:** A proof-of-concept (POC) project aimed at developing advanced AI Vision models leveraging AWS SageMaker to fine-tune and evaluate VLMs for OCR tasks.
- **Job Description:** Utilize AWS SageMaker to fine-tune renowned VLMs (e.g., QwenVL, Mistral). Apply machine learning algorithms to evaluate the model's experimental results for the target task.
- **Core Technologies:** VLM, AWS Cloud/SDK, Huggingface, NLP, etc.

Budget Management Tool

06/2024 – 09/2024

- **Project Size:** 15 members
- **Position:** Developer
- **Project Description:** Used to manage departments' and stores' expenditures and revenues across the entire system. Build monthly, quarterly or yearly reports on profit or loss.
- **Job Description:** Participate in server configuration, process financial data (Big Data), and enhance system functionalities.
- **Core Technologies:** ReactJS, NodeJS, Python, Golang, MongoDB, Redis, etc.

Oil Well Prediction Tool

04/2023 – 11/2023

- **Project Size:** 02 members
- **Position:** Data Science
- **Project Description:** Integration and enhancement of oil well prediction models for the Vietnam Petroleum Institute (VPI). The goal is to analyze and process geophysical data, train ML models, and predict reservoirs based on geophysical properties.
- **Job Description:** Perform data analysis, model training, and reporting on ML models. Develop tools for automated testing to enable flexible data expansion without dependency.
- **Core Technologies:** Pandas, Numpy, ML, DL, Dash, Python, etc.

PRIZE

- Outstanding Employee of the Year in 2023 of TinhVan Software.
- Outstanding Employee of the Year in 2024 of TinhVan Software.
- Outstanding Employee of the Year in 2025 of TinhVan Software.