Truong Tien Anh

AI Engineer

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EDUCATION

University of Science - VNUHCM	Oct. 2022 – Present
Bachelor of Science in Data Science and Computer Science	*Current GPA: 3.7/4.0*

Language Skills	**TOEIC**: 810/990, **VSTEP**: B2
(Conversational, able to work in English-speaking environment)	

CAREER OBJECTIVE

Final-year Computer Science student at VNUHCM - University of Science with strong interest in Artificial Intelligence, especially Machine Learning, LLMs, and data-driven systems. Seeking role as an **Intern / Fresher AI Engineer** to apply my skills and grow expertise in building intelligent applications.

SKILLS

Languages: Python, SQL, JavaScript, C/C++
Databases: SQL Server, PostgreSQL, MongoDB, Qdrant
Full-Stack Development: Express.js, Node.js, Next.js, HTML, CSS, Pug, FastAPI
Machine Learning: RAG, Chatbot, LLM, LangChain, TensorFlow, Scikit-learn
Big Data: Apache Hadoop, Spark, Airflow, Kafka, Docker
Cloud: GCP, AWS (S3, Glue, Redshift, Athena), Git/GitHub, MongoDB Atlas

EXPERIENCE

Scan CV – Intelligent CV Analysis and Candidate Database System	July 2025 – Sep 2025

Company: Nexlab Technology | Role: AI Engineer

- **Overview:** Developed an AI-powered CV parsing and candidate management system that automates text extraction, information structuring, and semantic candidate search. The system supports both SQL-based and vector-based retrieval for efficient recruitment.
- **Key Contributions:**
  * Built a hybrid retrieval pipeline combining **LLM-based parsing**, **PostgreSQL**, and **Qdrant** for structured and semantic search.
  * Designed a **Text2SQL** pipeline with schema introspection, SQL safety guard, and refinement loop to ensure accurate and secure query execution.
  * Implemented FastAPI microservices for CV upload, parsing (PyMuPDF), and LLM-driven JSON output.
  * Achieved over **90% query accuracy** and reduced semantic retrieval latency by **35%**.
- **Tech Stack:** FastAPI, PostgreSQL, Multi-Agent, Qdrant, LangChain, FAISS, Docker, OpenAI / DeepSeek API.
- **Impact:** Streamlined the recruiter workflow by enabling semantic candidate search, improving query accuracy, and significantly reducing manual screening time.

Sales Agent – Text-to-SQL Chatbot with Smart Visualization	Aug 2025 – Oct 2025

Company: Nexlab Technology | Role: AI Engineer

- **Overview:** Designed and implemented a conversational AI chatbot that translates natural language questions into SQL, executes them on BigQuery datasets, and automatically visualizes results.
- **Key Contributions:**
  * Built a **multi-agent Text2SQL** framework integrating OpenAI and DeepSeek models for flexible natural language query understanding.
  * Integrated with **Google BigQuery** to handle large-scale retail and sales data in real time.
  * Developed an interactive **Streamlit** dashboard for visualization of query outputs and KPIs.
  * Containerized and deployed backend and frontend with **Docker** and **Google Cloud Run** using GitLab CI/CD.

- **Tech Stack:** FastAPI, Streamlit, Multi-Agent, BigQuery, OpenAI API, DeepSeek API, Docker, GCP (Cloud Run, Big Query,.etc)
- **Impact:** Empowered non-technical business users to perform ad-hoc sales analysis conversationally, reducing report generation time by **50%**.

PROJECTS

Scan-CV Project | ⭘ GitHub Link   2025
- **Team size**: 2
- **Key Technologies**: GCP, PostgreSQL, Qdrant, LangChain, DeepSeek, OpenAI API, text2SQL, Docker
- **Description:**
  * Deployed an AI-powered CV scanning system on GCP for secure and scalable multi-user access.
  * Stored structured data in PostgreSQL and embeddings in Qdrant for semantic vector search.
  * Implemented text2SQL to handle natural language queries with schema-aware SQL generation.
  * Built a RAG pipeline (LangChain + OpenAI/DeepSeek) to support semantic retrieval and chatbot-style Q&A.

  * Developed an interactive HR-facing UI with Streamlit for querying CVs and extracting insights.

TopDev LLM Recommendation | ⭘ GitHub Link   5/2025 – 7/2025
- **Team size**: 2
- **Key Technologies**: FastAPI, VueJS, Mistral API, MongoDB, FAISS
- **Description:**
  * Built a web app to compare CVs with job descriptions using LLM-based analysis and semantic search.
  * Crawled TopDev.vn job data into MongoDB; extracted CV text, generated embeddings, and indexed with FAISS.
  * Used Mistral API to evaluate skill matches, surface gaps, and suggest learning paths.
  * Deployed FastAPI backend and VueJS frontend to Render/Railway for public access.

ACHIEVEMENTS & AWARDS

Awarded scholarship from NinetyEight.	*May 2025*
HCMC AIChallenge 2024	*Oct 2024*
Ranked Top 30 in the **AI Challenge 2024** organized by UIT.	*July 2024*
Awarded scholarship from Dong Hanh.	*Oct 2023*
Excellent Student Scholarship (HCMUS), for the academic year 2022–2023.	*Mar 2023*
Awarded scholarship from VGSP, PwC, Vu A Dinh, ..etc.	*Apr 2024*

CERTIFICATIONS

VSTEP - B2 - Vang Lang University	*Aug 2025*
TOEIC - 810/990 - ETS Global	*July 2025*
Unsupervised Learning, Recommenders, Reinforcement Learning - Coursera, Deeplearning.ai	*Mar 2025*
Python for Data Science and Machine Learning Bootcamp - Udemy	*Mar 2025*
Supervised Machine Learning: Regression and Classification - Coursera, Deeplearning.ai	*Mar 2025*
The Data Science Course Bootcamp - Udemy	*Nov 2024*
SQL Advanced - Udemy	*Sep 2024*
Python for developer - Udemy	*Sep 2024*