

# Nguyen Quoc Khanh

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## Summary

**Applied AI Engineer** with hands-on experience building LLM-powered applications Machine Learning, MLOps, Data Engineering. Aspiring highly motivated MSc/PhD candidate in Computer Science.

## Education

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|---|-----------------------|
| <b>University of Information Technology - VNUHCM</b>                | June 2020 - Nov 2024  |
| Bachelor of Science in <b>Information System</b> (GPA: 3.19 / 4.00) | Ho Chi Minh, Viet Nam |
| <b>Nguyen Du High School for the Gifted</b>                         | 2017 - 2020           |
| Major Subject in Physics (GPA: 3.5 / 4.00)                          | Dak Lak, Viet Nam     |

## Experience

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|---|--|
| <b>Silver Tiger Technology LLC - Dubai, UAE</b>   | Aug 2025 – Present   |
| AI Engineer   | <i>LangChain, LangGraph, Tensorflow Serving, LLM systems</i> |
| <ul style="list-style-type: none"><li>Design and deploy RAG architectures, multi-agent systems, and LLM-powered applications for enterprise clients (Chatbot, Assistant, Phishing Detection).</li><li>Self-hosted and optimized large-scale foundation models on dedicated 8xNVIDIA H200 GPU infrastructure, enabling high-throughput, low-latency inference for enterprise AI applications.</li><li>Evaluate new technologies and tools to improve scalability, cost efficiency, and model lifecycle automation.</li></ul> |  |
| <b>Speech Processing Department - VinBigdata - HCMC, Vietnam</b>  | Dec 2024 – Jun 2025  |
| AI Engineer   | <i>Data Engineering, MLOps, ASR, TTS</i>                     |
| <ul style="list-style-type: none"><li><b>Data Engineer</b> Developed and implemented <b>Data crawling, Labeling, Transcript Forced Alignment (TFA)</b> workflows within the SpeechWorld Data Framework. Improved Grapheme-to-Phoneme (G2P) models and acoustic models to enhance forced alignment accuracy and reliability.</li><li><b>Machine Learning Engineer/MLOps</b> Enhanced SpeechBase system with new features including model tuning, backend improvements, and online/active learning capabilities.</li></ul>    |  |

## Project

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|---|--|
| <b>AI Solution Platform - SilverTiger</b>   LLM, RAG, NLP, GraphRAG, Neo4j, Python, FastAPI   |  |
| <ul style="list-style-type: none"><li>Developed modules of enterprise LLM-powered assistant with RAG-based knowledge retrieval, integrating foundation models for real-time multi-language question answering across 100+ knowledge sources.</li><li>Designed ML evaluation and data generation framework including golden test cases, RAG benchmarking, and systematic model quality assessment, ensuring consistent performance across multi-language inputs (Vietnamese, English, and others).</li></ul>   |  |
| <b>Oten Trust - AI Security Platform - SilverTiger</b>   LLM, XAI, NLP, Python, FastAPI   |  |
| <ul style="list-style-type: none"><li>Led AI development of LLM-based phishing detection system with natural language reasoning, implementing explainable AI (XAI) for transparent trust scoring and cross-language scam detection across Vietnamese and English inputs.</li></ul>  |  |
| <b>Sign Language Translation - Graduation Thesis</b>   TypeScript, HumanGAN, LLM, Skeleton Viewer, Mobile/Web   |  |
| <ul style="list-style-type: none"><li>Developed a real-time sign language translation solution with multi-language support, leveraging cutting-edge machine learning for accurate sign-to-text and text-to-sign conversions.</li><li>Enhanced user interaction through an intuitive interface for both desktop and mobile, enabling speech-to-text, text normalization, and internationalization across 107 languages.</li><li>Innovated with 3D avatar animations and Human GAN technology for realistic sign language visualization, complete with video output features for sharing and accessibility.</li></ul> |  |

## Publication & Manuscript

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| <b>Adapting WavLM for Vietnamese Speaker Diarization in Real-world Conversations</b>           | 05/2025    |
| Thang Tuan Duy, Do Tri Nhan, Nguyen Van Huy, Nguyen Quoc Khanh, Phan Trung Kien, Mac Dang Khoa | MAPR 2025  |
| <b>An Orchestrated Framework for Automated Speech Data Processing and Alignment</b>            | 05/2025    |
| Nguyen Quoc Khanh, Nguyen Van Huy, Phan Van Tuan, Do Tri Nhan, Mac Dang Khoa                   | Manuscript |