# Le Duc Anh Tuan

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## EDUCATION

**Hanoi University of Science and Technology** — Hanoi, Vietnam
*Bachelor of Science in Data Science and Artificial Intelligence* — *Oct. 2020 - Aug. 2024*
- **Thesis**: Efficient Class Incremental Learning for Object Detection

## EXPERIENCE

**Menlo Research** — Singapore, Singapore
*LLM Researcher* — *Nov. 2024 - Apr. 2025*
- **Ichigo-ASR**: Trained Speech Tokenizer to support multiple Asian languages, achieving SOTA results on viVoice and LibriTTS-R
- **Ichigo Ecosystem**: Developed developer-focused speech package, provides easy access to advanced speech models via API, optimizing audio processing for faster deployment

**Viettel Group** — Hanoi, Vietnam
*Data Scientist* — *Apr. 2024 - Nov. 2024*
- **Conversational AI**: Developed a real-time, end-to-end "zero-touch" universal AI assistant with a multimodal multi-agent system, multimodal capabilities, personalized responses and creating Vietnam's first multimodal CRS

**Viettel High Tech** — Hanoi, Vietnam
*Computer Vision Researcher* — *Mar. 2023 - Sep. 2023*
- **Video Compression**: Researched INRs for videos, resolved temporal information problem in previous methods, achieved SOTA results for video reconstruction and compression tasks

## PROJECTS

- **Notes Assistant (2025)**: Architected a production-ready LLMOps multi-agent system with hybrid search RAG, managed by an orchestrator with observability inference, supporting local LLMs and AWS services
- **Gemini Omni (2024)**: Developed a real-time web application showcased at Google I/O Extended Hanoi, featuring speech-to-speech, multimodal integration for Vietnamese, and RAG for live updates
- **Detect Cheating in Examination (2022)**: Researched and deployed real-time cheating detection solution using Pose3D and VideoMAE for 100-person exam rooms; featured on VTV24, DanTri, HUST, etc

## PUBLICATIONS

- **Speechless (Interspeech, 2025)**: Speech Instruction Training Without Speech for Low Resource Languages
- **Poseless (arXiv, 2025)**: Depth-Free Vision-to-Joint Control via Direct Image Mapping with Vision Language Model

## SKILLS

- **Areas of Interest**: Multimodal/Reasoning LLMs, Multi-agent Systems, LLM Systems
- **Programming Language**: Python, C++, CUDA, Triton, TypeScripts, Java, Javascripts, SQL
- **LLMOps**: Docker, Kubernetes, AWS S3/Bedrock/SageMaker, MLflow, Airflow, ZenML, Weaviate, WandB
- **Framework**: PyTorch, TensorFlow, Hugging Face, vLLM, SGLang, LlamaFactory, Langchain

## CERTIFICATES

**Vietnamese Standardized Test of English Proficiency** — 2024-2026
- **Level**: B2

## VOLUNTEERING

- **Google Developer Groups Hanoi**: Spoke at DevFest 2022 and organized Google I/O Extended 2022, 2023, 2024; DevFest 2022, 2023; IWDxFFE 2023 and Build with AI 2024; certified by Google's Global Headquarters
- **SheCodes Vietnam**: AI Mentor of SheCodes Hackathon Hanoi 2023
- **Nestlé**: Ambassador of MT SparkTheNext Leaders Program 2023 & 2024
- **AIESEC**: Representative of Mini Leadership Conference 2022
- **VinAI Research**: Technical Collaborator at AI Day 2022

## ACHIEVEMENTS

- **Top 1,** Viettel Digital Talent 2024 (Data Science & Artificial Intelligence)
- **Third Prize,** Excellent Students Contest in Math 2019 (Provincial Merit Competition)
- **Winner,** Innovation Lab Asia CrowdPitch
- **Best Incubatee,** TechYouth (VinUniversity)
- **CCMG Grantee,** Cyberport (2nd largest incubator in Hongkong with 5 unicorns)
- **Top 1,** X-Challenge by VCCorp
- **Top 1,** Prometheus in digital transformation by European Union (out of 4000 teams)
- **Top 1,** Business Challenge 6 by Vietnam National University
- **Top 5,** Youth Impact Entrepreneurs by PNJ (VN30 Index)
- **Top 6,** Hult Prize Asia Summit 2022 (out of 1000 teams)
- **Top 20,** University Startup World Cup (out of 5000 teams)
- **Top 30,** Moonshot Global (out of 3000 teams)
- **Top 100,** XPITCH global (out of 4000 teams)