

EDUCATION

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

EXPERIENCE

- **Homebrew Research** Singapore, Singapore
LLM Researcher *Nov. 2024 - Present*
 - **Ichigo Whisper:** Trained Speech Tokenizer to support multiple Asian languages, achieving SOTA results on viVoice and LibriTTS-R.
- **Viettel Group** Hanoi, Vietnam
Digital Talent *Apr. 2024 - Nov. 2024*
 - **Conversational AI:** Developed a real-time, end-to-end “zero-touch” universal AI assistant with a multi-agent system, multimodal capabilities, intent understanding, and personalized responses, creating Vietnam’s first multimodal CRS, ranked Top 1 in the DSAI track of Viettel Digital Talent 2024.
- **Google Developer Groups** Hanoi, Vietnam
Organizer *Sep. 2022 - Aug. 2024*
 - **Leadership:** Planned and created project blueprints, delegated tasks to individuals, connected teams, and provided future operational guidance, certified by Google’s Global Headquarters.
- **VinBrain (NVIDIA)** Hanoi, Vietnam
Applied Scientist *Sep. 2023 - Dec. 2023*
 - **Medical Image Segmentation:** Developed MedNeXt for rectal cancer diagnosis and treatment support.
- **Viettel High Tech** Hanoi, Vietnam
Computer Vision Researcher *Mar. 2023 - Aug. 2023*
 - **Video Compression:** Researched INRs for videos, resolved temporal information problem in previous NeRV-based methods, achieved SOTA results for video reconstruction and compression tasks.
- **LEAN Platform** Southeast Asia
Machine Learning Researcher *Aug. 2022 - Jan. 2023*
 - **Action Detection:** Developed real-time Conv3D model for concentration recognition in online self-learning platform with 10000 users.

PROJECTS

- **Detect Cheating in Examination:** Researched and deployed real-time cheating detection solution using Pose3D and VideoMAE for 100-person exam rooms; featured on VTV24, DanTri, HUST,...
- **Bong:** Developed a real-time web application showcased at Google I/O Extended, featuring speech-to-speech, multimodal integration for Vietnamese, and RAG for live updates.
- **Google I/O Extended Website:** Designed front-end client and back-end admin websites, deployed hosting, and tracked event emails.

SKILLS

- **Programming Language:** Python, SQL, Java, C++, CUDA, TypeScript, JavaScripts, Triton.
- **MLOps:** GitHub, WandB, Docker, Kubernetes, MLflow, Airflow, Langchain, LangGraph, Weaviate, FastAPI.
- **Framework:** PyTorch, TensorFlow, Hugging Face, ONNX.
- **Language:** English (C1), Vietnamese.

VOLUNTEERING

- **Google Developer Groups Hanoi:** Speaker presents “Detecting Cheating in Examinations” at DevFest 2022.
- **SheCodes Vietnam:** AI Mentor of SheCodes Hackathon Hanoi 2023.
- **Nestlé:** Ambassador of MT SparkTheNext Leaders Program 2023 & 2024.
- **AIIESEC:** Representative of Mini Leadership Conference 2022.
- **VinAI Research:** Technical Collaborator at AI Day 2022.