Tuan Le Duc Anh

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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*

EXPERIENCE

VinBrain — Hanoi, Vietnam
Applied Scientist — *Oct. 2023 - Dec. 2023*
- **Medical Image Segmentation**: Researched model segmentation in rectal cancer diagnosis and treatment support.

Viettel High Tech — Hanoi, Vietnam
Computer Vision Researcher — *Mar. 2023 - Aug. 2023*
- **3DNeRV**: Researched INRs for videos, resolved temporal information problem in previous NeRV-based methods, achieved SOTA results for video reconstruction and compression tasks.

Google Developer Groups — Hanoi, Vietnam
Lead of Technical Team — *Feb. 2023 - Present*
- **Leadership**: Planned and created project blueprints, delegated tasks to individuals, connected teams, and provided future operational guidance.

Data Science Laboratory — BKAI, Vietnam
Machine Learning Research Assistant — *Jan. 2022 - Oct. 2023*
- **Continual Learning**: Researched adaptive dropout for sequential task-based data learning.

IWannaTech — Hanoi, Vietnam
Computer Vision Engineer — *Jun. 2022 - Mar. 2023*
- **Pose Estimation**: Implemented gesture recognition model for anime dance modeling using VideoPose3D.
- **Object Detection**: Deployed real-time facial recognition for attendance tracking using YOLOv5 Tiny and FaceNet architectures in a 1000-employee company.
- **Segmentation**: Researched and deployed edge SOD for recognizing Korean and English fonts on name cards, leveraging U2Net and DIS architectures.

LEAN Platform — Southeast Asia
Machine Learning Researcher — *Aug. 2022 - Jan. 2023*
- **Action Recognition**: 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.
- **Google I/O 2023 Website**: Designed front-end client and admin websites, deployed hosting, and tracked event emails.

SKILLS

- **Research Topic**: Video Reconstruction, Video Compression, Action Detection, Stable Diffusion.
- **Programming Language**: Python, SQL, Java, C++, CUDA, Triton.
- **Framework**: PyTorch, TensorFlow, XGBoost, OpenCV, ONXX, FastAPI, Flutter.
- **DevOps**: GitHub, WandB, Docker, Linux.
- **Language**: Vietnamese, English (C1)

VOLUNTEERING

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