

Luka A. Pham

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Education

ITMO University

Bachelor of Science in Robotics and Artificial Intelligence

– GPA: 4.4/5

2021 – 2025

St. Petersburg, Russia

Thai Nguyen High School for the Gifted, Vietnam

Class of Mathematics

2017 – 2020

Thai Nguyen, Vietnam

Experience

ZenAI

AI Research Engineer

Oct 2023 – present

Remote

Client: Astria.ai

- Designed and developed image generation training and inference scripts using Forge-A1111 and ComfyUI backend.
- Built and enhanced features such as personalized photoshoots, one-shot image generation, and style transfer.
- Improved inference speed by 60% using compiled methods and achieved high photorealism levels by applying upscaling and refining techniques.

Client: BranditScan (Lustylens)

- Researched and developed training scripts for generating professional, personalized images, leveraging augmentation techniques for usecases with limited data. Achieved high levels of resemblance and photorealism.
- Integrated code with GPU serverless backends such as Runpod and Replicate.

Technologies: PyTorch, OpenCV, Huggingface, Diffusers, Forge-A1111, ComfyUI, Runpod, Replicate.

H&L Consulting

Engineering Partner (AI Research Engineer)

May 2024 – Oct 2024

Hanoi, Vietnam

- Researched and developed solutions for Virtual Try-on applications based on open-source models.
- Optimized workflows and developed production-level APIs for applications by implementing asynchronous processing and queuing.

Technologies: FastAPI, Asyncio, Ultralytics, Python.

VietAI

Research Collaborator

Jan 2023 – Apr 2024

Remote

- Collected and processed Vietnamese speech datasets for finetuning OpenAI Whisper ASR model.
- Improved model accuracy through iterative training and hyperparameter tuning, utilizing cloud TPUs.

Technologies: TPUs, Flax, Huggingface, Speech-to-Text.

Skills

Industrial Core: Machine Learning Operations, Computer Vision, Image Generation, Natural Language Processing.

Programming Languages: Python, C/C++ , Java, LaTeX.

Tools and Framework: Pytorch, OpenCV, Huggingface, Diffusers, Django, FastAPI, AWS, Linux, Docker, Git.

Languages: English, Russian, Vietnamese (native speaker).

Academic Projects

Bud500: A Comprehensive Vietnamese ASR Dataset

Mar 2024

- Created Bud500, the largest public Vietnamese speech corpus with 500h quality audio, to support the ASR research community, covering a vast array of topics and accents across Vietnam.

Magic Animate Modified

Jan 2024

- Modified Magic Animate, a diffusion-based human image animation framework. Achieved higher video output quality and consistency, by implementing a multi-controlnet architecture.

Honors and Awards

Second Prize at SoICT Hackathon (Samsung track - AI-powered apps).

Oct 2023

Third Prize at SoICT Hackathon (Naver track - Spoken Language Understanding - SLU).

Oct 2023

Runner-up team at Swin Hackathon.

Sep 2023

Merit Award winner: at Hong Kong PolyHack (AI track).

Jun 2023