Khanh Le

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EDUCATION

University of Information Technology – UIT Sep. 2023 – Now

Computer Science

- Coursework: Data structure and Algorithm, Computer architect, Programming fundamental, Operating system, Computer vision, NLP

EXPERIENCE

Python/C++ Engineer Apr 2025 – Present

LaserMan

- Developed an AI-powered computer vision system on embedded devices to detect critical safety events in real-time camera (Trafic violation, Workplace accident, Elderly falls at home for health monitoring)
- Developed an AI-powered auto-response system for Facebook and Zalo using Retrieval-Augmented Generation (RAG) to handle customer support queries in Vietnamese

PROJECTS

Web-based Learning Apr 2024 - July 2024

Course Project *Grade: 9 /10*

- Designed and developed a full-stack React web application that provides online meeting services, collaborative note taking, and a digital learning environment.
- Implemented real-time video conferencing, integrated note editor, and user authentication.

Dental-Disease Detection Apr 2025 – July 2025

Course Project *Grade:9.2/10*

- Design developed a web application to detect five types of dental diseases (intraoral and x-ray images) using deep learning models including ResNet-32, custom CNN, and YOLO for image classification and object detection.
- Achieved an F1-score of **90%** for cavity detection, outperforming baseline models in precision and recall.
- Built an intuitive frontend to upload oral images and display diagnosis results, with backend support for real-time inference.

Virtual Try-On Oct 2025 – Dec 2025

Course Project

- Implemented HairFastGAN and IDM-VTON pipelines and developed a glasses try-on module to enable realistic hairstyle and accessory synthesis for e-commerce.
- Built an end-to-end prototype: preprocessing - model inference - post-processing - web demo integration, ensuring consistent alignment and realistic blending across diverse face images.
- Evaluated visual quality and usability through iterative testing and optimized inference for interactive demo performance.

PROGRAMMING SKILLS

Languages: C/C++, Python, Linux Scripting, Assembly, Javascript.
Frameworks: PyTorch, Tensorflow, OpenCV (C++ and Python), Tensorboard, gtest, NodeJs, ReactJS.
Tools: Git, CMake, Docker, Visual Studio, Jira, Confluence.

Certificates

SQL Advanced (Hacker Rank): CERTIFICATE Oct 2023
Python (Hacker Rank): CERTIFICATE Oct 2023
Computational Thinking for Problem Solving: CERTIFICATE Jan 2025