

ABOUT ME

IT graduate with strong background in Computer Vision and full-stack development. Experienced in building web systems and AI-based research projects. Currently expanding skills in backend development (NestJS, Node.js) and DevOps for scalable applications.

EDUCATION

Bachelor of Information Technology

Tan Trao University
2021 - 2025

Master's student in Computer Science

Posts and Telecommunications Institute of Technology
2026 - now

SKILL

- Programming: C++, Python, JavaScript, TypeScript
- Backend: Node.js, NestJS
- Frontend: Next.js, Vite
- Database: MySQL, MongoDB, PostgreSQL
- DevOps: Docker, GitHub Actions, Linux (Ubuntu/Debian)
- AI/ML: OpenCV, Deep Learning, Computer Vision

TỀ TRUNG HIẾU

IT
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Tân Mỹ - Tuyên Quang

EXPERIENCE

Inside Tan Trao University — 2021-2025

- Used Git, GitHub, and GitHub Actions for source code management and basic CI/CD workflows.
- Deployed and worked with Docker in an internal training environment for application development and testing.
- Worked on Computer Vision tasks including object detection, tracking, image segmentation, and basic 2D/3D pose estimation.
- Gained basic experience in Visual SLAM and Visual Odometry through research and learning projects.
- Managed Ubuntu Server for internal training systems and application deployment.
- Designed and developed a personal portfolio website and a university information website using Next.js and Directus CMS.

Inside Bach Thao Ngan — 2025 – 2026

- IT Support & System Administrator
  - Managed internal network and server systems (Ubuntu Server) ensuring stable operations for training and development environments
  - Provided IT Help Desk support for users, resolving hardware/software/network issues
  - Deployed and maintained Docker-based services for internal applications
  - Improved system stability and reduced downtime through proactive monitoring
- HRMS Platform (Internal Project)
  - Designed and developed a Human Resource Management System for employee, attendance, and leave management
  - Built backend APIs using NestJS and PostgreSQL with Redis caching for performance optimization
  - Developed frontend with Next.js for admin and employee dashboards
  - Implemented role-based access control (RBAC) for secure data management
  - Deployed system using Docker for containerized environment

PUBLICATIONS

- 3D human pose estimation from sport videos using Mediapipe framework.
- Real-time hand action detection and classification on the egocentric vision dataset based on Mediapipe.
- TQU-HG dataset and comparative study for hand gesture recognition of RGB-based images using deep learning.
- TQU-SLAM benchmark feature-based dataset for building monocular VO.
- TQU-SLAM benchmark dataset for comparative study to build visual odometry based on extracted features from feature descriptors and deep learning.
- Fine-tuning VO estimation model based on deep learning of TQU-SLAM benchmark dataset (Ready for publication).
- Research on website design system of Tan Trao University and specialized faculties