Nguyen Tran

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Education

Bunker Hill Community College   Boston, MA
Associate of Science in Computer Science   *1/2023 - 5/2025*
Transfering to Umass Lowell in Fall 2025 with a Merit Scholarship
Relevant Course Work: Data Structure and Algorithms, C++ Programming, Java Programming, SQL
Programming,..

Technical Projects

CamCrop   *01/2025 – Present*
Team Member
- Developed an application that dynamically crops video frames to focus on multiple moving objects using YOLOv9 and OpenCV.
- Trained and optimized YOLOv9 models to enhance real-time object detection and tracking accuracy.
- Designed and implemented an adaptive frame-cropping algorithm to ensure all detected objects remain in focus.
- Collaborated in a team of two, applying machine learning and computer vision techniques to improve video analysis.

HackHarvard 2024 Project: ASL to English Translation App   *10/2024*
Team Member
- Collaborated with a team to develop an application that translates American Sign Language (ASL) to English in real time.
- Collected and labeled datasets of ASL gestures for machine learning model training.
- Worked in a fast-paced hackathon environment to deliver a functional prototype.

Rubik's Solver   *5/2024*
- Programmed an application to solve a scrambled 2x2x2 Rubik cube by applying my knowledge in Data Structure
- Provided the user step by step guide to solve the cube from any valid scrambles to a completely solved Rubik cube.

Activities & Extracurriculars

Quang Trung Martial Arts Center   *6/2023 – 9/2024*
Martial Arts Instructor - Volunteering
- Trained a group of 12 - 15 children to practice various martial arts techniques.
- Fostered a positive and disciplined environment to encourage students' personal growth and teamwork.

Vibe Music Academy   *8/2022 – 12/2022*
Teacher Assistant – Part time
- Instructed a group of 10 children from 10 to 12 years old to achieve the outcome requirements of the curriculum in a specific time.
- Created personalized plan for each student and report the learning process for supervisor every week.

Skills

Programming Languague: Python, Java & C++
Tools - Frameworks: Scikit-learn, Spring Boot, YOLOv9