

NICK TRINH

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EDUCATION

Fordham College at Rose Hill – Fordham University

New York City, USA

Math and Computer & Information Sciences (BSc)

Expected May 2027

- **Coursework:** 3.71 GPA, Computer Science I (Intro to Computer Science), Computer Science II (Object-Oriented Programming), Discrete Structures, Calculus I & II, Discrete Mathematics.
- **Honors & Awards:** Fordham Faber Award (\$57,100/year), Dean's List, Best Overall Team in Fordham CS Society Hackathon, UBS 2024 Pitch Competition (3rd Place, \$2,500)

WORK EXPERIENCE

AI Engineer Intern

Remote

Rainscales

Jun 2024 – August 2024

- Developed an AI model with YOLOv8, ByteTrack, and PyTorch to track and count workers, achieving 94.3% precision in detecting alcohol-tested workers.
- Deployed the model on a Triton Inference Server, built interface with Gradio, and containerized the application with Docker for use in production.

Research Assistant

New York City, USA

Fordham Robotics & Computer Vision Lab

Feb 2024 – present

- Assembled and programmed VEX Robot systems with ROS and C++, facilitating research activities and improving lab efficiency.
- Assisted in assembling robots for visual homing research, contributing to successful project outcomes.

PROJECTS

LinguaWealth (3rd place in UBS Pitch 2024)

- Developed an AI-powered personalized assistant helping wealth advisors approach international markets.
- Integrated AWS and Azure API services to transcribe and translate voice input in real-time.
- Utilized OpenCV to export captions to live webcam and integrated GPT-4 API to store and analyze conversation with the client and give feedback and suggestions for wealth manager.

Smart Gardening Project

- Engineered an automatic watering and feeding system for household scale vegetable gardens using various sensors and microcontrollers, paired with a user-friendly app to assist the user.
- Built the system with C++, utilizing Arduino microcontrollers, ESP8266 microchip, and various sensors (humidity, sunlight, temperature...) to control the garden.
- Created an app to manage the system and integrated a chatbot using Python, TensorFlow, and Flutter.

LEADERSHIP

Cofounder

Oct 2018 – May 2022

Sky-Line ICT Club

- Led a 4-person team to develop a chemical detection system for domestic water using Arduino, enhancing community safety and spreading awareness on local water pollution.
- Directed a 3-person team to create a safe motorcycle ignition system based on alcohol usage using Arduino, increasing road safety and spreading awareness on drinking and driving accidents.
- Organized and taught weekly coding classes in Pascal, C/ C++, enhancing technical skills of members.
- Recognized and applauded in the local newspaper for innovative efforts.

SKILLS

Languages: C/C++, Python, JavaScript, HTML/CSS, DART.

Technologies: Git, Linux CLI, Docker, Flutter, OpenCV, NumPy, TensorFlow, PyTorch, AWS, Azure, FastAPI, Gradio, ROS, Arduino, Microsoft Office apps, YOLO.