

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 using YOLO, ByteTrack, and PyTorch to track and count alcohol-tested workers, achieving 94% precision through advanced data preprocessing and augmentation techniques.
- Deployed the AI model on a Triton Inference Server, developed a user-friendly interface with Gradio for seamless inference, and containerized the app with Docker, enabling production use and scaling.

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 by enabling faster prototyping and testing.
- 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 personal assistant helping wealth advisors approach international clients/markets.
- Integrated AWS and Azure API services for real-time voice transcription and translation, enabling seamless multilingual communication and enhancing the quality of the advising session.
- Utilized OpenCV for live webcam captioning and integrated GPT-4 API for conversation analysis, providing actionable insights and information to wealth advisors and improving client interaction.

Inventory Management App

- Engineered an inventory management app with functionalities to add, remove, and edit items.
- Built the front-end and back-end using React, Next.js, and Material UI, with Firebase as the database.

LEADERSHIP

Cofounder

Oct 2018 – May 2022

Sky-Line ICT Club

- Led a 3-person team to build an automatic watering and feeding system for a household scale vegetable garden using various sensors and microcontrollers, paired with a user-friendly app and a personal chatbot made with Flutter and TensorFlow to assist the user.
- 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.

SKILLS

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

Technologies & Frameworks: TensorFlow, PyTorch, React.js, Next.js, AWS, Azure, OpenAPI, Docker, OpenCV, NumPy, Firebase, Git, Linux CLI, Gradio, Flutter, ROS, Arduino.