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 scholarship), Dean's List, Best Overall Team in Fordham CS Society Hackathon, UBS 2024 Pitch Competition (3rd Place).

SKILLS

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

Technologies & Frameworks: Express.js, Node.js, React.js, Next.js, TensorFlow, PyTorch, AWS, Azure, OpenAI, Docker, Firebase, MongoDB, Stripe, Git, Linux CLI.

WORK EXPERIENCE

AI Engineer Intern   Remote
Rainscales   Jun 2024 – August 2024
- Developed an AI model with YOLO, ByteTrack, and PyTorch to track and count alcohol-tested workers, achieving 94% precision through advanced data preprocessing and augmentation techniques.
- Quantized and deployed the model on an NVIDIA Triton Inference Server, decreasing inference time by 50%.
- Developed a user-friendly interface with Gradio for 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 ROS2 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.

E-commerce website template
- Developed a e-commerce website using Node.js, React.js, Express.js, MongoDB, and Redis, featuring secure authentication, product CRUD operations, and integrated Stripe payments.
- Implemented core functionalities like shopping cart, coupons, analytics, and an admin dashboard for managing products and user data in real-time.
- Designed a responsive frontend with React, handling token-based authentication, dynamic product listings, and a seamless checkout experience.

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 built with Arduino, paired with a user-friendly app and a personal chatbot made with Flutter and TensorFlow to assist the user.
- Directed a 3-person team to create a safe motorcycle ignition system based on alcohol usage usingArduino, 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.