

NICK TRINH

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EDUCATION

Fordham University

Bachelor's, Mathematics and Computer Science

May 2027

GPA: 3.7

- Coursework: Computer Science I & II, Calculus I & II, Discrete Structures, Discrete Mathematics.
- Honors & Awards: Fordham Faber Award (\$57,100/year), Dean's List, UBS 2024 Pitch Competition (3rd Place).

SKILLS

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

Technologies & Frameworks: React.js, Node.js, Express.js, Next.js, Tailwind CSS, MongoDB, Firebase, PyTorch, Tensorflow, AWS, Microsoft Azure, Docker, Stripe, Git, Linux, Web Development, Object Oriented Programming

PROFESSIONAL EXPERIENCE

Rainscales

AI Engineer Intern

Remote

June 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 purposes.

Fordham Robotics & Computer Vision Lab

Research Assistant

New York, NY, USA

February 2024 - Present

- Assembled and programmed robot systems with ROS2 and C++, facilitating research activities and improving lab efficiency by enabling faster prototyping and testing.
- Participated in visual homing research utilizing Visual Place Recognition (VPR) and YOLO, contributing to successful project outcomes with fellow researchers.

PROJECTS & OUTSIDE EXPERIENCE

E-commerce website - [Link to project](#)

- Developed an e-commerce website using Node.js, React.js, Express.js, and MongoDB, featuring secure authentication, Redis caching, 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 and Tailwind CSS, handling token-based authentication, dynamic product listings, and a seamless checkout experience.

LinguaWealth (3rd place in UBS Pitch 2024) - [Link to project](#)

- 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.

Sky-Line ICT Club

Co-founder

Da Nang, Vietnam

October 2018 - May 2022

- Organized and taught weekly Data Structures and Algorithm classes for members to prepare for regional and national competitive programming competitions, enhancing personal and members technical skills.
- 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 and C++, paired with a user-friendly app and a personal chatbot made with Flutter and TensorFlow to assist the user.
- Managed a 3-person team to create a safe motorcycle ignition system based on alcohol usage using Arduino and C++, increasing road safety and spreading awareness on drinking and driving accidents.