Nick Trinh

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Education

Fordham University New York, NY

BSc in Mathematics and Computer Science *Expected May 2027*

- **Coursework:** Introduction to Computer Science, Object-Oriented Programming, Data Structures, Computer Algorithms, Database Systems, Data Communications & Networking.
- **Honors & Awards:** Fordham Faber Award ($57k/yr), UBS Pitch Competition (3rd Place), Dean's List.

Technical Skills

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

Technologies & Frameworks: React.js, Node.js, Express.js, Next.js, Tailwind CSS, MongoDB, Firebase, PyTorch, TensorFlow, AWS, Microsoft Azure, Docker, Git, Linux, ROS2, Gazebo.

Proficiencies: Full-stack web development, AI/ML model development and integration, RESTful API design tools, cloud computing, computer vision, embedded and robotics programming, version control.

Experience

Software Engineer Intern Jan. 2025 – Present

StudyFetch *New York, NY*

- Developed a **TypeScript** Chrome extension with study planning, focus timer, and analytics dashboard features.
- Developted an AI-powered plushie toy with **C++** and **Raspberry Pi**, enhancing kids' learning engagement.

Software Engineer Intern Oct. 2024 – Dec. 2024

OHOS Media *New York, NY*

- Built an AI-driven job application optimization web app with **React.js**, **Next.js**, **Express.js**, and **MongoDB**.
- Achieved **50%** adoption rate among Fordham students within the first year by helping students land more jobs.
- Improved **ATS** compatibility by **30%** and increased interview rates by **25%** with AI-driven resume optimization.
- Reduced application time by **50%** by incorporating **AI-powered** tools to generate cover letters and resumes.

AI Engineer Intern Jun. 2024 – Aug. 2024

Rainscales *Remote*

- Developed an AI model using **YOLO** and **PyTorch** to track alcohol-tested workers with **94%** accuracy.
- Reduced model size and inference time by **50%** by optimizing model for deployment on NVIDIA Triton Server.
- Improved scalability and deployment speed by **30%** by containerizing the model with **Docker**.
- Enhanced accessibility for AI model testing and inference by creating a user-friendly interface with **Gradio**.

Research Assistant Feb. 2024 – Present

Fordham Robotics & Computer Vision Lab *New York, NY*

- Improved lab efficiency by **40%** by assembling and programming robotic systems with **ROS2** and **C++**.
- Led research on visual homing using **Visual Place Recognition (VPR)** integrated with **YOLO**.
- Boosted research performance and speed by training various **neural networks** and AI models with **PyTorch**.

Projects

E-commerce Website | *Node.js, React.js, Express.js, MongoDB, Stripe, Tailwind CSS*

- An e-commerce platform featuring Redis caching, comprehensive CRUD operations, secure user authentication, real-time analytics, and an admin dashboard. The responsive interface offers dynamic product listings and a seamless checkout flow, enhancing both performance and user experience.

LinguaWealth (3rd Place UBS Pitch 2024) | *Python, AWS APIs, Azure APIs, OpenCV, OpenAI API*

- A multilingual communication app providing real-time speech-to-text and cross-language support to help wealth managers engage international clients. It integrates live webcam captioning for instant multilingual transcriptions and includes conversation analysis for actionable insights that optimize advisor-client interactions.

AI Tutor with flashcards | *Next.js, React.js, MongoDB, Tailwind CSS, Anthropic API*

- An AI-powered learning app featuring chat and flashcard functionalities for interactive study and personalized quizzes. It provides a user-friendly interface with dynamic content, enhancing engagement and retention.