

# Nick Trinh

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## EDUCATION

### Fordham University

Expected May 2027

*BSc in Mathematics and Computer Science*

**GPA: 3.66/4.0**

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

## EXPERIENCE

### Software Engineer Intern

January 2025 – Present

*StudyFetch*

*New York, NY*

- Engineered a full-stack AI mindmap generator using **TypeScript**, **React**, and **Claude API**, processing **100+** study materials daily, auto-generating connected concepts, and increasing user study retention by **32%**
- Developed an interactive AI toy using **RaspberryPi** and **Python**, implementing offline STT, TTS, and local LLM inference for real-time conversations, increasing children's learning engagement across **50+** beta testers

### Software Engineer Intern

October 2024 – December 2024

*OHOS Media*

*New York, NY*

- Collaborated with a team of 5 to build and deploy a scalable AI job application platform with **Next.js**, **Node.js**, **Express.js**, and **MongoDB**, achieving **2000+** adoptions among Fordham students within the first year
- Built a resume and cover letter generation system using **OpenAI API** and **Express.js**, reducing application preparation time by **34%**, processing and generating **7000+** documents monthly for student job seekers
- Implemented ATS compatibility analyzer using **Python** to improve resume, leading to **24%** higher ATS pass rates

### AI Engineer Intern

June 2024 – August 2024

*Rainscales*

*Remote*

- Engineered **YOLO** and **PyTorch**-based computer vision system to monitor **1000+** alcohol-tested workers with **92%** accuracy in various conditions, while optimizing model size and inference time by **44%**
- Containerized deployment of AI models with **Docker** and **NVIDIA Triton Server**, improving projects scalability
- Developed GUI for model testing, enabling non-technical team members to conduct tests and reducing feedback cycles, maintaining production-grade accuracy across **20+** versions

### Research Assistant

February 2024 – Present

*Fordham Robotics & Computer Vision Lab*

*New York, NY*

- Spearheaded novel research combining **Visual Place Recognition (VPR)** with **YOLO** for robotic navigation and visual homing, achieving **86%** accuracy in complex environments with dynamic landmarks.
- Collaborated with 4 researchers to develop autonomous robotic systems using **ROS2** and **C++**, enabling automated experimenting with high reliability in complex testing environments
- Improved research performance by implementing various **neural networks** and AI models with **PyTorch**

## PROJECTS

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

- Developed an award-winning multilingual communication platform using **Python**, **OpenCV** and **cloud APIs**, enabling real-time speech-to-text translation across multiple languages with **88%** accuracy and winning **\$3k** prize
- Implemented AI-powered sentiment analysis and natural language processing to extract actionable client insights, increasing wealth manager productivity and improving cross-cultural client communication effectiveness

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

- Engineered a scalable e-commerce platform using **Node.js**, **Express.js**, **MongoDB**, and **Redis** caching to implement secure JWT authentication and comprehensive CRUD operations
- Developed responsive storefront and admin dashboard using **React.js** and **Tailwind CSS** to display real-time analytics and streamline a seamless checkout flow with Stripe

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

- Engineered an AI learning app featuring chat and flashcard functionalities for interactive and personalized quizzes
- Created an UI with dynamic study content generated from study materials, enhancing engagement and retention

## TECHNICAL SKILLS

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

**Frameworks & Technologies:** React.js, Next.js, Node.js, Express.js, Redux, MongoDB, Firebase, PyTorch, TensorFlow, OpenCV, OpenAI API, Anthropic API, Tailwind CSS, Redis, Git, Docker, AWS, Azure, ROS2, Linux