

# Ngoc Vi Tran (Jack)

## SUMMARY

Computer Science student and AI research assistant at Georgia Tech with hands-on experience building production-ready ML systems, real-time data pipelines, and user-facing applications; seeking a 2026–2027 internship in Software Engineering, Machine Learning, or Data Engineering.

## EXPERIENCES

### Data Driven Education VIP, Atlanta, GA — Student Researcher

Jan 2026 - Present

- Develop data-driven backend services and ML pipelines in Python for AI-assisted educational tools deployed in large-scale courses.
- Collaborate with faculty and researchers to model, analyze, and design system architectures for adaptive learning platforms.
- Evaluate model performance and educational impact using statistical analysis and hypothesis-driven testing.

### ABC Tutors, Atlanta, GA — Web/Student Assistant

Jul 2022 - May 2024

- Engineered and maintained scheduling systems supporting 3,000+ tutoring bookings, eliminating booking conflicts and reducing manual coordination by 40%.
- Drove 18% revenue growth through targeted social media campaigns and optimized student conversion funnels.
- Led Python programming workshops for 60+ high school students, increasing technical proficiency and workshop satisfaction scores by 25%.
- Redesigned student onboarding workflows, improving platform usability and decreasing support tickets by 30%.

## PROJECTS

- The Last Deal (Lua/Roblox): Engineered event-driven gameplay systems for a multiplayer game, supporting 500+ monthly active users.
- PixelBobAI (Python/NLP): Implemented ethical AI guardrails to ensure empathetic responses, improving user satisfaction scores by 35%.
- MoneyParce Finance (JavaScripts/SQL): Developed a transactional backend ensuring 99.9% uptime and secure user account operations.
- SpeechRecog (Python/WebSockets): Built a real-time speech-to-text system achieving ~90% transcription accuracy with sub-500ms streaming latency.
- GT Movie Store (PHP/SQL): Built admin tools and purchase workflows, streamlining order tracking and reducing processing time by 20%.
- Interactive Portfolio (React/JS): Designed a pixel-style personal platform with an integrated AI chatbot, increasing visitor engagement time by 50%.
- Perlith (Python/Flask): Built a procedural web app generating dynamic alien topographic maps with real-time browser rendering.

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## SKILLS

Programming - C# | Python | JavaScript | LUA | HTML5 | CSS3 | SQL | FLASK | API Integration | NLP | and LLMs

Language - Vietnamese (Native) | English (Fluent) | Spanish & Japanese (Interests)

## EDUCATION

### Georgia Institute of Technology

B.S. in Computer Science, Expected May 2027

### Georgia State University

B.S in Computer Science coursework, 2022 – 2023

GPA: 3.87 | Dean's Honor List

## RELATED COURSEWORK

Design & Analysis Algorithms

Computing & Society

Object-Oriented Design

Data Structure & Algorithms

User Interface Design

Perception & Robotics

Foundations of Cognitive Science

## EXTRACURRICULARS

Engineering Club — Led a team to design, build, and flight-test a quadcopter drone, overseeing system integration and stability tuning.

ProgClub GSU — Active contributor to technical discussions on algorithms, backend systems, and AI; applied concepts to personal projects.

Chattahoochee Riverkeeper — Volunteer supporting river cleanups and environmental conservation initiatives through hands-on field work.

## CERTIFICATES

Generative AI in Learning & Development (LinkedIn Learning)

Machine Learning Foundations: Statistics (LinkedIn Learning)