Ky Tran

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EDUCATION

Georgia Institute of Technology, Atlanta, GA   **August 2022 – May 2026**

- Bachelor of Science in Computer Science | Information Internetworks & Cybersecurity & Privacy | GPA: 3.70
- Minor in Leadership Studies | Business Leadership
- **Relevant Coursework**: Object-Oriented Programming, Object-Oriented Design, Data Structures & Algorithms, Computer Systems, D&A of Algorithms, Computer Networking, Information Security, Network Security, Malware Reverse Engineering
- Leadership for Social Good Study Abroad (Summer 2025) | Peer Service Leadership Award
- Affiliations: Codepath, Marching Band, Tau Beta Sigma, FirstGen

SKILLS

Programming:	Python, Java, HTML, CSS, JavaScript, C, Assembly
Frameworks & Tools:	Spring Boot, React, Tailwind, Git, Trello, Google Firebase, Scrum/Agile, Kanban, Debugging
Platforms:	Linux/UNIX, Windows, Azure, Docker, Virtual Machines, Git Bash
Certifications:	AZ-900, MTA: Microsoft Software Development Fundamentals, Security+ (in-progress)
Spoken Languages:	English (Fluent/Native), Vietnamese (Fluent/Native), GA Seal of Biliteracy

WORK EXPERIENCE

Technology Consultant Intern   **May 2025 – June 2025**
beeco   *Budapest, Hungary*

- Advised on backend architecture for a scalable, AI-powered recommendation system using Faiss, Sentence-BERT, and pgvector
- Developed data strategies to enrich behavioral, footprint, and partner analytics for feature recommendations and app development
- Analyzed competitors to identify backend integration gaps and opportunities for global growth and revenue expansion

Software Engineering Intern   **May 2024 – August 2024**
NCR Atleos   *Atlanta, GA*

- Automated secure device provisioning and management using Azure and VMs for MIDAS ATM production environments
- Collaborated with 3 teammates to downscale 14,000 E5 licenses to 2,000 licenses to **save $700,000/year** in IT operations costs
- Deployed CIS benchmarks using Azure Group Policies, improving security compliance by 20% across all devices

Computer Science Teaching Assistant | CS3001   **August 2025 – Current**
Georgia Tech College of Computing   *Atlanta, GA*

- Lead weekly discussions for 10 students regarding ethics in the computing space to encourage ethical software development
- Assist in grading homework assignments and term papers

PROJECTS

Phishing Email Detection   **March 2025 – April 2025**

- Developed a phishing detection system using RF, TF-IDF, and semantic feature engineering, increasing accuracy from 79% to 92%
- Implemented scalable NLP pipeline incorporating WHOIS-based domain age, URL heuristics, and spaCy-based POS tagging, reducing false positives on legitimate emails by 73% and improving safe email recall by 19%
- Integrated Gmail API with OAuth 2.0 to automate real-time email analysis and generate logs detailing phishing indicators

Embedded Systems Vulnerability Research   **August 2024 – Current**

- Led vulnerability assessment in wireless fire alarm using RF analysis, serial monitoring, and reverse engineering in team of 6-8
- Enhanced Python script to bypass encryption/authentication and enable over-the-air firmware updates for fire alarm pull station

CodePath Cybersecurity Class   **September 2024 – November 2024**

- Led team of 4+ during 3-week capstone project focused on risk mitigation and system hardening in enterprise setting
- Gained experience using industry-standard tools like CyberChef, John the Ripper, and Metasploit to secure and test systems

Spotify Wrapped Android App   **February 2024 - April 2024**

- Led weekly SCRUM and backlog meetings as Scrum Master for 6 members to ensure project completion using Trello and Kanban
- Developed database and UI for user authentication and cloud storage using Google Firebase

AT&T EmpowHer Hackathon (Finalist)   **May 2023**

- Built a user-friendly and multi-functional website using HTML, CSS, and JavaScript
- Created interactive coverage maps hyperlinks to AT&T's website and social media to increase 5G footprint

LEADERSHIP EXPERIENCE

Resident Assistant (Georgia Tech Housing and Residence Life)   **December 2023 – Current**

- Plan social events for 50+ residents to create welcoming community for diverse student body

Piccolo Section Leader (Yellow Jacket Marching Band)   **August 2025 – Current**

- Led 10+ piccolo members as 2025–26 section leader, managing rehearsals, logistics, and serving as liaison to director