

# 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**

- Oversaw 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 timely 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**

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