

Aanya Agarwal

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EDUCATION

Georgia Institute of Technology

Bachelor of Science in Computer Science

First Year Semester Abroad

Expected May 2028

Atlanta, GA

Metz, France

Relevant Coursework: Data Structures and Algorithms, Object-Oriented Programming, Discrete Math, Linear Algebra, Assembly

SKILLS

- **Programming Languages:** Python, Java, TypeScript, JavaScript, SQL, Swift, Assembly
- **Machine Learning and Data:** PyTorch, TensorFlow, NumPy, Pandas, MongoDB, SQLite, Prisma ORM
- **Web and Application Development:** React, SwiftUI, HTML/CSS, Git, Xcode, Cursor

EXPERIENCE

Enertest Solutions LLC – Software Engineer and Consultant

May 2026 - Present

- Designed, developed, and deployed the company's production website using React and Vercel
- Architected the website's product catalog, case studies, and built a new quote-request system responsible for 80% of new client leads
- Supported Python backend testing scripts as an intern on battery test systems for Tesla and Mercedes-Benz USA projects

Accenture – L2L Summer Intern

June 2024 - August 2024

- Led a capstone project on deepfake detection, orchestrating collaboration with 30+ interns, consultants, and industry professionals
- Conducted research initiatives that contributed to a 20% improvement in deepfake detection accuracy
- Presented strategic recommendations to executives, driving a 30% increase in awareness and funding for detection technologies

PROJECTS

School Job Board Website

February 2025

FBLA National Leadership Conference Finalist – 5th Place Nationally, 4th in North Carolina

- Built a dedicated job board platform using JavaScript, HTML/CSS, Prisma, & SQLite for 3,600 high school students and counselors
- Engineered core features including employer posting, student applications, input authentication, and backend approval workflows
- Centralized student-friendly opportunities to reduce age discrimination by isolating roles within an accessible site
- Executed version control and collaborative workflows via Git and GitHub for efficient team development cycles

Tally: Voice-First Food Tracking App

April 2026

Claude AI Hackathon Finalist – Georgia Tech x Anthropic (event featured by NBC News)

- Engineered a voice-first food tracking iOS app using Swift/SwiftUI and the Apple Speech Framework within a 3-hour timeframe
- Gamified fitness tracking through health tokens, streaks, and consistency rewards, securing a finalist placement among 20+ competing student teams

Design Token Generator

May 2026

- Built an interactive design token editor using HTML/CSS and the Figma Variables API to generate 7-category token sets from natural language prompts
- Leveraged a fine-tuned small language model to automate token generation covering color, typography, spacing, etc. for various UIs

LEADERSHIP AND COMMUNITY ENGAGEMENT

GT iOS Club

Spring 2026 - Present

- Building a new unified Georgia Tech app consolidating 15+ scattered campus websites/tools using Swift/SwiftUI
- Building features for campus bus tracking, dining menus, meal pass integration, study room booking, scheduling, etc.
- Implementing real-time crowding data for dining halls, libraries, study spaces, and the campus recreation center

Big Data Big Impact

Spring 2026 - Present

- Developed a full-stack website that allows users to upload photos and identify 10+ Georgia Tech landmarks using a ResNet-18 CNN
- Implemented image classification with PyTorch, processing visual features to provide accurate landmark predictions
- Built front-end with React and HTML/CSS for interactive, user-friendly uploads and results display
- Integrated backend APIs, database storage, and model inference pipelines to handle requests efficiently

Undergraduate Research at Georgia Tech

August 2025 - December 2025

- Collaborated on a graduate-level research project in computer vision, developing CNN-ViT hybrid models for domain adaptation
- Results showed improved domain-adaptation accuracy by 7% with CNN-ViT hybrid models across 3 evaluation domains