

Karnav Trivedi

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EDUCATION

Georgia Institute of Technology

Expected May 2028

B.S. Computer Science — Artificial Intelligence & Computer Networking

GPA: 4.0/4.0

- *Relevant Coursework:* Data Structures & Algorithms, Design & Analysis of Algorithms, Computer Architecture, Systems & Networks, Object Oriented Programming, Software Design, Intro to AI, Discrete Mathematics

EXPERIENCE

IBM

May 2026 – Present

Software Developer Intern

Austin, TX

- Optimized document processing pipelines by implementing request batching and caching mechanisms within IBM watsonx Orchestrate for key-value pair extraction workflows, reducing latency by **21%**.
- Architected a distributed request routing layer on Red Hat OpenShift, federating AI model endpoints to enhance production document processing workloads by **25%**.
- Collaborated with a cross-functional team of 3 to integrate intelligent document processing features, streamlining internal workflows and reducing manual processing by **3x** on benchmarks.

Georgia Institute of Technology

January 2026 – Present

Undergraduate LLM Researcher

Atlanta, GA

- Developed analysis pipelines to evaluate **10,000+** student programming submissions, leveraging LLM-based error classification to uncover misconception patterns and improve automated feedback design.
- Analyzed student interaction and hint usage data, discovering that moderate AI assistance reduced solution attempts by **58%**, guiding the design of more effective AI-assisted tutoring workflows.

BetterCampus

November 2025 – May 2026

Software Engineer Intern

Atlanta, GA

- Designed and engineered scalable full-stack systems including planners, themes, notes, and dashboards using React and TypeScript, enhancing platform performance for **2.5M+** active users.
- Implemented ML-driven automation features including auto-planning, contextual note generation, and voice transcription leveraging user behavior signals, reducing operational costs by **18%**.
- Implemented and maintained REST APIs and resolved **200+** production issues, improving reliability across reminders, calendars, notes, and task workflows.

iVue

May 2024 – November 2024

Lead Software Engineer

Atlanta, GA

- Implemented CI/CD pipelines and integrated RESTful APIs for a remote drone control platform, enabling reliable communication across distributed systems and accelerating deployments.
- Led and mentored **3** engineering interns, owned system architecture and code reviews, and optimized critical system paths, reducing end-to-end latency by **15%** and accelerating feature delivery by **25%**.

PROJECTS

AuxAI – AI Driven Spotify DJ Platform

React | MongoDB | Spotify API

- Built and deployed a full-stack, intelligent music recommendation platform, implementing **Spotify OAuth 2.0** and JWT to securely authenticate users and automate playlist creation through the Spotify Web API.
- Engineered backend pipelines that aggregate **50+ top tracks and artists** per user, leveraging OpenAI to generate personalized collaborative playlists with **90%+ recommendation relevance**.

NotiVet – Drug Alert Platform for Healthcare Professionals

React | PostgreSQL | Next.js

- Designed and implemented a drug alert platform managing **900+ FDA-approved drugs**, enabling **automated update pipelines** and secure dual-role dashboards for healthcare professionals.
- Developed an **AI-powered clinical assistant** that processes **100K+ structured drug data points** to generate **source-backed alerts** and summaries for veterinary workflows.

TECHNICAL SKILLS & CERTIFICATIONS

Languages: Python, Java, JavaScript, TypeScript, C, SQL, HTML, CSS

Frameworks & Databases: React, Next.js, Node.js, Vue.js, FastAPI, MongoDB, PostgreSQL

Cloud & DevOps Tools: AWS, Azure, Google Cloud Platform (GCP), Docker, Linux, Git, CI/CD, Firebase

Certifications: CompTIA Security+, Anthropic AI Fluency, IBM AI Fundamentals, GIAC Foundations Cybersecurity Technologies, Certiport IT Specialist – Software Development