Gauri Sharma

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EDUCATION

Georgia Institute of Technology — Atlanta, GA

Bachelor of Science - Major in Computer Science (Intelligence & Information Internetworks Threads) — May 2027

GPA: 3.9/4.0; Faculty Honors Fall 2024, Dean's List Spring 2025

Skills: Programming Languages: Java (Advanced), Python (Advanced), C (Advanced), TypeScript, SQL, GoLang, HTML, CSS

Frameworks/Concepts: Git, TensorFlow, Jupyter Notebooks, REST APIs, React, Django, Multimodal Sentiment Analysis, MCP, Microsoft Azure, LangChain, Docker, HuggingFace, Kubernetes, Data Structures and Algorithms.

Certificates: Stanford Machine Learning Specialization, Udemy Zero To Mastery Python Developer, Bloomberg Markets Concepts, AWS Certified Cloud Practitioner, Kubernetes and Cloud Native Associate (KCNA)

PROFESSIONAL EXPERIENCE

IBM Software Engineering Intern — Atlanta, GA

Summer Intern for Open Source, KubeStellar Project — May 2025 – July 2025

- Enhanced KubeStellar, a CNCF Sandbox **multi-cluster Kubernetes** tool built by IBM engineers, by engineering **automated goroutines** for a cross cluster **krew** plug-in, cutting real-time workload visibility and aggregation latency across clusters by **72%**.
- Implemented **46 custom kubectl** commands for the plug in and built **3 issue pipelines** for **60+ contributors** of KubeStellar.

MIT NANDA/Fusen World Fellowship — Atlanta, GA

Agentic Cybersecurity Summer Intern, Team 'Aegent' — May 2025 – Aug 2025

- Collaborating with **MIT's NANDA** research group to develop an MCP registry with **650+ users** for the agentic web; prototyped **Agent Cascade Injection**, an attack vector for **numerical benchmarking** for security and reliability in **agent communication**.
- Created an MCP interface for a multi agent architecture security scanner compatible with **A2A** and other agent frameworks.

Financial Services Innovation Lab — Atlanta, GA

Research Assistant, Vertically Integrated Program @Georgia Tech — Jan 2025 – Present

- Developed specialized benchmarking methodologies and introduced a novel taxonomy to differentiate embedding model performance on **professional structured texts** (SEC filings, legal contracts, governance policies) versus general-purpose content.
- Implemented an embedding evaluation pipeline **reducing hallucinations** by **20%** in compliance document generation tasks.

PROJECTS & ORGANIZATIONS

Social Dynamics and Wellbeing Lab @ Georgia Tech — Atlanta, GA

Research Assistant | LLM Jailbreaking, Persuasion Modeling — Jan 2025 – Present

- Co-authored study on jailbroken LLM agents simulating real-world harassment using prompting, memory injection, and fine-tuning.
- Built multi-agent pipelines (**Autogen**/**Ollama**) to evaluate toxic dialogues in 8 harassment types using ASR, TTS, and RR metrics.

SimpliEarn Project @ Big Data Big Impact Club @ Georgia Tech — Atlanta, GA

Project Lead | Sentiment Analysis, Data Visualization, Finance — Jan 2025 – Present

- Built a multimodal sentiment pipeline for **earnings calls** by segmenting speech and timestamping audio to align with transcripts, using **FinBERT** and **Wav2Vec**—boosting sentiment accuracy by **67% through cross-modal** trend analysis and visualization.

Podcast ML Retrieval and Stylistic Analysis — Doha, Qatar

Researcher | Web Scraping, Sentiment Analysis, Audio Analysis, Data Processing — Sep 2024 – Apr 2024

- Performed quantitative analysis of audio stylistic and textual variations in listener comments on **30 New York Times podcasts**, utilizing **13 parameters** from **OPENSMILE** and textual sentiment analysis to assess correlations with listener sentiments.
- Commended at the **AP Research Middle East and North Africa Forum** at American University, Dubai for empirical process.

LEADERSHIP

Market Insights Head, Trading @ GT — Atlanta, GA

Currencies Team Lead | Macroeconomic Research, Market Strategy, Financial Writing — Jan 2025 – Present

- Led weekly macroeconomic research for **FX markets**, translating global central bank signals and geopolitical events into weekly written trading briefs shared with **400+ student investors** on LinkedIn; mentored new analysts and coordinated publishing cycles.

Event Lead, StartUpExchange @ Georgia Tech — Atlanta, GA

Events Board |Event Management, StartUp — Jan 2025 – Present

- Coordinated event operations for a startup club at Georgia Tech, organizing over five events annually with **500+** in attendance; responsibilities included staffing, and ensuring smooth execution of speaker presentations and logistics for each event.