

Aamogh Sawant

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EDUCATION

Georgia Institute of Technology
Bachelor of Science in Computer Science

Atlanta, Georgia
Expected Dec 2027

TECHNICAL SKILLS

Languages: Go, Python, TypeScript, Java, C, C++, JavaScript, SQL, R, C#, HTML, CSS
Frameworks: Node.js, Express.js, FastAPI, Spring Boot, tRPC, React, Next.js, Angular, Tailwind CSS
Libraries: PyTorch, TensorFlow, scikit-learn, NumPy, Pandas, Flask, Django, OpenCV
Tools & Platforms: Amazon Web Services (AWS), Microsoft Azure, Google Cloud Platform (GCP), Cloudflare, Vercel, Git, Docker, Kubernetes, Linux, Redis, MongoDB, PostgreSQL, SQLite, Selenium, Playwright, Vitest, Drizzle, Jupyter Notebook, Unity

EXPERIENCE

Software Engineer Intern

May 2026 – Present

AT&T

Atlanta, GA

- Engineered backend REST microservices powering **real-time fraud detection** for Cricket Wireless, screening **10,000+ daily transactions** at **sub-250ms p95 latency** to flag fraudulent activity before it impacts customers.
- Designed event-driven detection pipelines that shifted fraud scoring from delayed batch review to **real-time inline checks**, cutting the detection window for account-takeover, payment, and signup fraud from hours to milliseconds.
- Cut scoring latency by **40%** under production-scale traffic by optimizing schema design, indexing, and query execution, keeping fraud checks fast enough to run inline on every transaction without friction for legitimate users.

President

Sep 2025 – Present

Data Science @ Georgia Tech

Atlanta, GA

- Architected and shipped the **complete Hacklytics platform from scratch**, spanning registration, team formation, check-in, submission, and judging across the full event lifecycle for **1,500+ participants**.
- Developed the judging and scoring engine coordinating submissions across **hundreds of teams** and dozens of judges in real time, replacing manual spreadsheet workflows during the live event.
- Launched Query, a full-stack internal platform using Next.js, TypeScript, tRPC, Drizzle, and Tailwind, streamlining data workflows, member management, and operations for a **1,000+ member** organization.

Undergraduate Researcher – Software & Data Engineering

Aug 2025 – Present

Social Dynamics and Wellbeing Lab

Atlanta, GA

- Spearheaded the end-to-end **fine-tuning pipeline (SFT + DPO)** behind a mental health detection model, owning data prep, training, and evaluation as the core system driving the results in a paper submitted to **EMNLP**.
- Scaled large-scale NLP processing over **1M+ Reddit posts** to construct training and preference datasets, turning raw social media data into structured signal for behavioral and wellbeing modeling.
- Created FAISS-based retrieval delivering **low-latency semantic search** over millions of high-dimensional embeddings, surfacing relevant context in real time for downstream detection tasks.

Software Engineer Intern

May 2025 – Dec 2025

University of Central Florida

Orlando, FL

- Constructed schema-constrained LLM extraction pipelines with **LangChain** and **Pydantic**, improving structured extraction accuracy by **63%** and cutting hallucinated outputs by **42%** versus the baseline prompting approach.
- Fine-tuned LLMs using **Ollama**, **Hugging Face Transformers**, and **LoRA**, adapting general models to reliably pull structured data from dense academic text.

PROJECTS

PlatosCave | *Python, FastAPI, Cloudflare, Docker, DAG, Knowledge Graphs*

- Programmed FastAPI backend services for an agentic system validating research papers via a trust-propagating knowledge graph.
- Structured DAG-based pipelines modeling citation networks and propagating trust scores across large-scale academic graphs.

Gotero | *Go, REST API, OAuth2, Concurrency, Security*

- Shipped a Go-based CLI system automating PDF retrieval from Zotero, processing **5,000+ documents** across research repositories.
- Boosted throughput **65%** by parallelizing the processing pipeline with concurrent workers over authenticated API access.