

Andrew Kaminer

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Education

Georgia Institute of Technology

MS in Computer Science

Atlanta, GA

August 2026 - May 2027

Georgia Institute of Technology

BS in Computer Science, Specializations in Theory and Intelligence

Atlanta, GA

August 2022 - May 2026

- **GPA:** 3.6 / 4.0 (Highest Honors)
- **Organizations:** Varsity Men's Crew, Grey Hat, Big O Theory
- **Relevant Coursework:** Databases, Efficient ML, ML Security, Number Theory, Systems and Networks

Work Experience

The Trade Desk

Software Engineer Intern, Real-Time Bidding Team

Boulder, CO

May 2025 - August 2025

- Used C#, Nvidia Triton, and ONNX runtime to build distributed machine learning inference service, capable of handling **~15 million requests per second** with gRPC
- Built **custom in-memory cache** of advertiser info to avoid network hops and maintain **<100ms p99 latency requirement**

Georgia Pacific

Data Engineer Intern, Advanced Analytics Group

Atlanta, GA

May 2024 - August 2024

- Led team of engineers and data scientists to ideate and build new LLM chatbot architecture using AWS Bedrock, saving **\$720,000** per year in AWS costs and reducing application rollout time by roughly **10x** on **100+ sites**

Projects

FIXable - Electronic Trading Engine | C++ 17, FIX 4.2

June 2025 - Present

- Implemented the Financial Information eXchange (FIX) 4.2 protocol in C++ supporting message parsing, validation, stateful session management, and high performance logging using spdlog
- Developed automatic style and testing enforcement using GitHub Actions, GoogleTest, and CLangFormat

Speculative Unlearning (Paper in progress) | PyTorch, Machine Unlearning

April 2025 - Present

- Co-developed breakthrough method of removing specific training data from LLMs with minimal model degradation - **a large step forward in a previously unsolved research problem**

Lightweight ML Serving API | AWS, Docker, Flask, Python, Machine Learning

June 2025 - July 2025

- Built Flask API, served using AWS, to allow users to upload data and test ML model performance
- Implemented common machine learning models from scratch using matrix operations, including an RL-based Tic Tac Toe bot

Awards and Distinctions

Rowing - National Champion

May 2025

- Won the Men's Lightweight 4+ event at the Collegiate Rowing National Championships

Georgia Tech AI Safety Initiative Alignment Fellow

September 2024 - November 2024

- Selected for weekly round table discussions on safety and alignment topics in modern AI

Research Experience

Sulchek Biomechanics Laboratory

Software Engineer

Atlanta, GA

January 2023 - Present

- Increased speed of data collection by **two orders of magnitude** by fine-tuning YOLOv8 with **100K+** instances to automatically extract accurate data from microscopy videos, allowing previously impossible data analysis at scale
- Significantly increased speed of data entry, analysis and plot creation by building python web app

Georgia Tech FinTech Lab

Research Intern, Collaborative Knowledge Curation

Atlanta, GA

August 2024 - December 2024

- Built web crawlers to scrape and clean gigabytes of text data, used for training LLMs and building RAG systems

Skills

Languages: C++, C# (.Net), Java, SQL, Python

Cloud: AWS, Docker, Kubernetes

Databases: MySQL, PostgreSQL, Redis

DevOps: Bash, CMake, Github Actions, GitLab CI/CD, Grafana, Linux, Poetry, Prometheus

Libraries/Frameworks: Dash, Flask, GoogleTest, PyTorch, spdlog