Andrew Kaminer

Atlanta, GA, USA

+1 912-602-9280 | akaminer@gatech.edu | andrewkaminer.com | linkedin.com/in/andrew-kaminer

Education

Georgia Institute of Technology   **Atlanta, GA**
MS in Computer Science   August 2026 - May 2027

Georgia Institute of Technology   **Atlanta, GA**
BS in Computer Science, Specializations in Theory and Intelligence   August 2022 - May 2026
- **GPA:** 3.63 / 4.0 (Highest Honors)
- **Organizations:** Varsity Men's Crew, Grey Hat, Big O Theory

Work Experience

The Trade Desk   **Boulder, CO**
Software Engineer Intern, Real-Time Bidding Team   Summer 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   **Atlanta, GA**
Data Engineer Intern, Advanced Analytics Group   Summer 2024
- Led team of engineers and data scientists to ideate and build new 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 (**Private Github - 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**

ML Library Serving | *AWS, Docker, Flask, Python, Machine Learning*   June 2025 - July 2025
- Built Flask backend, containerized using AWS ECR, allowing 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

Research Experience

Sulchek Biomechanics Laboratory   **Atlanta, GA**
Software Engineer   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
- Significantly increased speed of data entry, analysis and plot creation by building python web app

Georgia Tech FinTech Lab   **Atlanta, GA**
Research Intern, Collaborative Knowledge Curation   Fall 2024
- Built web crawlers to scrape and clean gigabytes of text data while evading anti-scraping protection

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

Skills

Languages: C++, C# (.Net), Java, SQL, Python
Cloud: AWS, Docker, Kubernetes
Databases: MySQL, PostgreSQL, Redis
DevOps: CMake, Github Actions, GitLab CI/CD, Grafana, Poetry, Prometheus
Libraries/Frameworks: Dash, Flask, GoogleTest, PyTorch, spdlog