

Adam Kulikowski

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Education

Georgia Institute of Technology | Atlanta, GA

Expected Graduation: May 2027

Bachelor of Science in Computer Science | Certificate in Finance

GPA: 3.5/4.0

- Concentrations: Information Internetworks /Artificial Intelligence
- Relevant Coursework: Machine Learning, Info Security, Computer Organization, Intro to Artificial Intelligence, Lin Algebra

Work Experience

Caterpillar, Inc. | Peoria, IL

May 2025 – August 2025

Software Engineering Intern

- Developed RESTful API specifications and proxies using Swagger, and Apigee; integrating JSON threat limiting, threat protection, rate limiting, and injection prevention policies for large data applications & real-time asset monitoring
- Built an AI-assisted CI/CD pipeline (Python, GitHub Actions, Azure Foundry) with a custom OpenAPI linter and automated proxy validation, reducing spec review time by ~30% and enforcing standards across engineering teams.
- Redesigned Cat Central platform during Hackathon, building Angular-based frontend with enhanced machine-integration security and a live maps API dashboard for asset tracking, and site mapping & optimization.
- Selected from 70+ interns as winner of Caterpillar U.S. Hackathon to represent Cat USA at Global Hackathon.

DolphinGemma | Atlanta, GA

April 2025 – Present

Student AI Researcher

- Engineered data aggregation and labeling to train “DolphinGemma”, an AI model designed to mimic wild dolphins.
- Processed over 3,500+ bioacoustic audio samples (Python, Audacity) to prepare training data for DolphinGemma, ensuring high-quality, structured input for downstream machine learning development.
- Featured at Google I/O and highlighted on the Google homepage as a showcase of applied AI.

Allez Go | Atlanta, GA

August 2024 – Present

Technical Cofounder & Software Engineer

- Developed a real-time fencing broadcast animation system for tracking the movement of fencing blades for referring & TV.
- Used OptiTrack infrared camera input, Python OpenCV for motion tracking & a dynamically tuned Gaussian blur parameter.
- Finalist on PBS’s Inventure Prize in front of 60,000+ live viewers on TV, winner of Georgia Tech’s Create-X program.
- Spearheaded \$20,000 financing deal for the software to be used in an upcoming fencing related TV production.

Caterpillar, Inc. | Peoria, IL

May 2021 – August 2021

Software Engineering Intern

- Designed and implemented Spotter’s Guide, an iOS catalog app (SwiftUI, Xcode) for Caterpillar machines, engines, & parts.
- Structured JSON machinery datasets, created UI/UX, and published to the App Store (TestFlight, Apple Developer Tools).

Projects

Birdie (Amazon AWS: S3, Lex, Web Crawler, Kendra)

Planned, designed, and coded an AWS application to help golf enthusiasts interact with AI representations of their favorite players

- Built pipeline using AWS Bedrock for player-specific responses, Lambda for event triggers, S3 for data and conversation storage, Lex for chat, Kendra for indexing and retrieving golf knowledge, and a Python scraper for live stats/news.
- Competitively selected for high-profile fintech hackathon by Amazon AWS & Truist and personally recognized by Truist CEO.

Wireless Fencing Scoring System (C++, Circuit Theory, CAD, Arduino, System Design)

Planned, designed, and coded a wireless scoring system for épée fencers to use in place of expensive wired ones at my fencing club.

- Utilized Arduino nanos, voltage setup converter, and REED relays to improve system latency from 1-2 seconds to <1ms.
- Saved my local fencing club \$3,000 in equipment costs and was used by over 50 fencers to conduct fencing drills.

Airline Management Software (SQL, mySQL Workbench, SQL schema)

Designed and implemented an airline database management system using mySQL

- Efficiently managed airline data, including flight schedules, aircraft specifications, flight routes, & airport information.
- Developed complex database relationships to simulate real-world airline operations and optimized query performance to ensure fast and accurate data retrieval.

Skills

Programming: Java, Python, SQL, C, C++, HTML and CSS, Swift, MATLAB

Technologies: OpenCV, NumPy, Pandas, Matplotlib, JavaFX, Django, Figma, SwiftUI, Git, Azure, Docker, Jupyter Notebook, Open APIs

Leadership

College of Computing | Student Assistant Coach

December 2024-Present

- Organized large campus events (500+ students) & managed correspondence to major employers (a16z, Google, Bloomberg)

Georgia Tech Grand Challenges Living Learning Community | Program Coach

August 2023-Present

- Led 200 first year students in market research, and customer discovery in tackling one of the UN’s 12 SDGs.