

Matthew Erickson

📞 919-886-0891 ✉ mterickson404@gmail.com 🔗 [linkedin.com/in/matter404](https://www.linkedin.com/in/matter404) 🐙 github.com/matthewErickson05

Education

Georgia Institute of Technology

Expected May 2027

Bachelor of Science in Computer Science (GPA: 3.7 / 4.0)

Atlanta, GA

- **Relevant Coursework:** Design and Analysis of Algorithms (CS 3510), Data Structures and Algorithms (CS 1332), Intro to Artificial Intelligence (CS 3600), Intro to Database Systems (CS 4400), Objects and Design (CS 2340)

Experience

SAS

May 2025 – Present

DevOps Intern - EVAAS Team

Hybrid - Cary, NC

- Worked to mitigate security risks on cloud infrastructure that stores personal data of millions of US students.
- Designed and implemented an internal Azure-based ticket syncing system, to improve cross-team collaboration.
- Researched possible design issues and cost of migrating system from multi-tenant to single-tenant architecture.

Automotive LiDAR Vertically Integrated Project

Dec 2024 – Present

Developer - Testing and Simulation Team

Atlanta, GA

- Developed compact LiDAR design capable of implementation onto an automotive platform.
- Led a team of student developers to test legacy code as the system migrates from ROS1 to ROS2.

Georgia Tech Interfraternity Council (IFC)

Jan 2024 – Dec 2024

Director of Membership Experience

Atlanta, GA

- Protected and governed members of greek life at GT to remove hazing from campus and decrease greek life stigma.
- Facilitated campus wide events like Homecoming and Greek Week while handling a multi-thousand dollar budget.

Projects

MLB Pitch Predictor Neural Net | TensorFlow, Python, ScikitLearn, K-nearest Neighbor Algorithm

- Developed a program to clean and sort the data brought in by MLB API over the past 6 seasons.
- Designed two Neural Net models (One using Numpy only and one using TensorFlow) which would predict the next pitch a pitcher would throw based on time-series data.
- The Neural Net was able to predict the right pitch and location up to 80% accurate for some pitchers. Working on deriving useful insights for batters.

Insider Trading Notification System | Python, Web-Scraping, AWS SES (Simple Email Service)

- Developed a web-scraper that automatically sorts through the Federal SEC's insider trading reports.
- Filtered the reports so that useful insights were discovered. This involved recognizing trades that were explicitly insider from routine money transfers.
- Working on developing an autonomous system that will send updates daily using AWS SES (simple email service).

Spotify Wrapped | Java, Android Studio, Figma, Firebase

- Developed an app where Spotify users connect their account and see friend's music listening data, year-round.
- Deployed using Android Studio, including a Firebase backend where users could login from multiple devices.
- Provided accurate listening data using the Spotify API, and created a user-centric front end using Figma.

Technical Skills

Languages: Java, Python, SQL, JavaScript, HTML/CSS, Latex, C, Swift

Technologies: Azure SDK, Apache Maven, React.js, Docker, Terraform, Firebase, Express.js, TensorFlow, PyTorch, SciKit-Learn, Android Studio, Node.js, Numpy, Pandas, MongoDB, AWS, JUnit, PyTest

Concepts: Continuous Integration, System Requirements Engineering, Relational Database Planning, Artificial Intelligence, Machine Learning, Neural Networks, API, Database Normalization, UML, Object Oriented Programming.

Awards/Honors/Achievements/Elected Positions

- Georgia Tech Dean's List
- Order of Omega (for emerging leaders in greek life) - Georgia Tech
- DECA NC State Competition (Travel and Tourism Marketing) - 1st place Overall
- 2nd Place at Georgia Tech's Bloomberg Bpuzzled competition.
- House and Grounds Chair - Phi Gamma Delta