

Austin Mitchell

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EDUCATION

Georgia Institute of Technology

Master of Science in Computer Science

Atlanta, GA

Expected May 2025

- Relevant coursework: Deep Learning, Machine Learning, Game AI

Georgia Institute of Technology

Bachelor of Science in Computer Science

Atlanta, GA

May 2024

- Graduated with Highest Honors
- Relevant coursework: ML, Design and Analysis of Algorithms, Data Structures and Algorithms, Systems and Networks

SKILLS

Programming: Java, Python, C, JavaScript, C#, SQL(PostgreSQL), C++, MongoDB

Cloud and Infrastructure: AWS, Terraform, Linux, Docker, GitLab CI/CD

Web Development: HTML, CSS, React, Node.js, Next.js, GraphQL, jQuery

Artificial Intelligence: Neural Networks, GPTs, GANs, Diffusion Models, Reinforcement Learning

Interests: Weightlifting, Nutritional Health, Financial Literacy, Traveling, Hiking

WORK EXPERIENCE

Georgia Tech Research Institute- Advanced Concepts Laboratory

Graduate Research Assistant

Atlanta, GA

May 2024 - Present

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Splunk

Backend Software Engineer Intern

San Jose, CA

May 2023 - July 2023

- Developed with a team to create an improved implementation of a Splunk-based application for data ingestion and analysis of logged information, achieving an 800% performance improvement in categorizing this information into macroscale "episodes".
- Engineered an infrastructure utilizing the Apache Flink and AWS services to create a fault tolerant application by periodically taking snapshots of a data streaming processor, allowing users to save several days of time in the event of data loss.

QwickRate

Software Engineer Intern

Marietta, GA (Remote)

August 2022 - April 2023

- Developed full-stack web applications utilizing a React, GraphQL, and PostgreSQL to allow for our customers to create KPIs to aid in the management of loans and facilitate the loan review process to be utilized by medium-sized banks.
- Used GraphQL to create API queries to create modular graphics enabling informed decision-making for industry professionals.

Ultimate Kronos Group (UKG)

Full-stack Software Engineer Intern

Atlanta, GA

January 2022 - August 2022

- Designed full-stack web applications utilizing a .NET and jQuery framework and continuously iterated on products to create custom solutions to fit clients' needs for generating and signing various tax and legal documents to facilitate HR processes.
- Wrote and modified SQL stored procedures to alleviate some of the complexity on the database and decrease the processing time.
- Performed root-cause analysis on recurring issues and redefined stored procedures to enable better utilization of monitoring software such as Grafana to allow developers to more easily trace sources of potential issues and decrease the downtime for clients.

PROJECTS

Alzheimer's Disease Detection Project

Machine Learning Models

Atlanta, GA

August 2023 - December 2023

- Spearheaded the creation, training, and testing of Machine Learning models with 2 team members to provide a diagnosis of Alzheimer's Disease based on a patient's MRI image. The models performed image categorization to determine the severity.
- Analyzed the above models utilizing statistical analysis techniques to find that the Support Vector Model and the Convolutional Neural Network perform the best with a consistent score of ~97% accuracy and recall score which exceeded our expectations.

RushKit

Recruitment Web Application

Atlanta, GA

July 2022 - December 2022

- Determined communication as a major issue in various campus organizations' recruitment processes and surveyed stakeholders.
- Designed and deployed a full-stack application using React.js to assist organizations in the recruitment of new members by providing a platform for feedback and communication for those within the organization and the potential new members.

ORGANIZATIONS

Delta Chi Fraternity

Treasurer, Technology Chair

Atlanta, GA

August 2021 - Present

- Monitored a \$750,000+ budget for a non-profit organization and performed accounting tasks such as taxes and invoice management.
Worked collaboratively with other Executive Members to improve the well-being of members, their family, and friends.

Bits of Good

Atlanta, GA

*Developer**January 2023 - May 2024*

- Orchestrated with other developers the development and deployment of web applications for non-profits with the primary goal of both increasing their overall efficiency and improving their outreach programs.
- Collaborated with non-profits and developers to create a generalized volunteer management system, a highly-requested tool that improves the administrative workflow by over 50% by providing methods of organizing volunteers and centralizing information.