Aishwarya Chakravarthy

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EDUCATION

Georgia Institute of Technology — Atlanta, GA
B.S./M.S. in Computer Science, Honors Program — *August 2022 - May 2026*
- **GPA**: 4.0/4.0
- **Concentrations**: Artificial Intelligence & Theory

SKILLS

Programming Languages: Python, Java, Javascript (React, Node, Express), C, Go, SQL, Terraform, HTML/CSS, XML, TypeScript, Swift
Technologies: Docker, AWS, Android Studio, Keras, Tensorflow, Scikit-Learn, MERN Stack, Git, Redis, Celery, Pandas

EXPERIENCE

Engineering Intern — Pittsburgh, PA
Duolingo — *May 2024 – August 2024*
- Developing **Temporal Workflow** to automate migration of **AWS Aurora RDS Clusters** from **Intel** to **Graviton**-based instances using **Python**, **Go**, **Terraform**, and **Boto3**
- Workflow results in an estimated **10% in cost savings** and **hundreds of annual hours saved** in manual migration time

Kleiner Perkins Engineering Fellow — San Francisco, CA
May 2024 – Current

AI Research Assistant (advised by Dr. Polo Chau) — Atlanta, GA
Georgia Institute of Technology — *August 2023 – current*
- Researching **LLM (Large Language Model) Attribution** and **Usability**
- Developing **Google Documents Add-On** to enable **LLM prompting** and **prompt engineering**
- *Demo*: https://www.youtube.com/watch?v=k-X_z4wOP4, *Github*: https://github.com/poloclub/wordflow-doc

MIT Haystack Observatory Software Engineering Intern — Cambridge, Massachusetts
Massachusetts Institute of Technology — *June 2023 – August 2023*
- Developed **software dashboard** to monitor **Antarctic ice shelf stability** using **seismic, geodetic, and weather data** from various APIs
- Created **front-end using Dash by Plotly**, **database using SQLite**, and **cache and job queue solutions using Celery with Redis broker**
- Facilitated containerized application using **Docker**
- Built analysis platform capable of generating **spectrograms, power spectral densities, and geodetic and weather visualizations**
- *Demo*: https://www.youtube.com/watch?v=qxPYex6UsOM, *Github*: https://github.com/AishwaryaC26/RIS-Vis

Data Structures and Algorithms (CS 1332) TA — Atlanta, GA
Georgia Institute of Technology — *Jan 2023 – Current*
- Assist in teaching **1000+ students** skills of implementing basic **data structures and algorithms**
- Lead weekly recitations for **20+ students** and **grade 25 weekly homework assignments**
- Hold **3 hours of office hours** weekly

HexLabs Tech Team Project Lead — Atlanta, GA
Georgia Institute of Technology — *Dec 2022 – Current*
- Lead development of **full stack applications** for university-wide hackathons, **reaching 4000+ students** annually
- Utilize **MERN stack** to create live-site containing registration forms, event information, and admin-related necessities
- *Github*: https://github.com/HackGT

HONORS & AWARDS

- **Georgia Tech College of Computing**: Outstanding First-Year Leadership Award.
- **NHacks (Top 15 Hacks)**: Built a webapp that supports small businesses during the COVID-19 pandemic.
- **BridgeHacks (Best Beginner Hack)**: Constructed a carbon footprint calculator webapp.

PROJECTS

- **Plant Doc: A Web Application Capable of Identifying Diseased Plant Leaves**:
  - Designed a convolutional neural network utilizing the **VGG-19 CNN**
  - Built the backend of webapp using the **Python Flask web framework**
  - Used **HTML, CSS, and bootstrap** to create an appealing frontend

- **Othello (Board Game)**:
  - Used **minimax algorithm** with **alpha beta pruning** to create intelligent Othello playing algorithm in Python