Aishwarya Chakravarthy

achakrav6@gatech.edu
(571) 443-1474
Fairfax, VA

www.linkedin.com/in/achakrav6

EDUCATION

Georgia Institute of Technology Atlanta, GA
B.S. in Computer Science, Honors Program *August 2022 - May 2025*
- **GPA**: 4.0/4.0
- **Concentrations**: Artificial Intelligence & Systems and Architecture

SKILLS

Programming Languages: MERN Stack, Python (Flask, Plotly), Java, Javascript (React, Node, Express), C, SQL, NoSQL, HTML/CSS, XML, TypeScript, Swift
Technologies: Docker, Xcode, Android Studio, Azure, Keras, Tensorflow, Scikit-Learn, OpenPose, Git, Redis, Celery, Pandas

EXPERIENCE

Incoming Engineering Intern Pittsburgh, PA
Duolingo *May 2024 – August 2024*

Computer Science Research Assistant (advised by Dr. Polo Chau) Atlanta, GA
Georgia Institute of Technology *August 2023 – current*
- Researching **LLM (Large Language Model) Attribution** and **Usability**

MIT Haystack Software Engineering Intern Cambridge, Massachusetts
Massachusetts Institute of Technology *June 2023 – Current*
- Developing **software dashboard** to monitor **Antarctic ice shelf stability** using **seismic, geodetic, and weather data** from various APIs
- Creating **front-end using Dash by Plotly**, **database using SQLite**, and **cache and job queue solutions using Celery with Redis broker**
- Facilitating containerized application using **Docker**
- Building analysis platform capable of generating **spectrograms, power spectral densities, and geodetic and weather visualizations**

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

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
  - Programmed in **Python**

- **Flappy Bird**:
  - Created remake of Flappy Bird game using **Android Studio** software
  - Programmed in **Java and XML**

HONORS & AWARDS

- **Georgia Tech College of Computing**: Outstanding First-Year Leadership Award.
- **American Computer Science League**: 10th Place in Senior Division competition.
- **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.
- **Diamond Challenge (Entrepreneurship Competition) Finalist**: Engineered a webapp to track and manage food wastage for businesses. Was in top 10% of teams.