

Pranay Begwani

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EDUCATION

Georgia Institute of Technology

Master of Science in Computer Science (Machine Learning, **GPA: 4.0**)

May 2025

Bachelor of Science in Computer Science (**GPA: 3.97**)

May 2024

EXPERIENCE

Amazon

May 2024 – Jul 2024

Software Development Engineering Intern

Bellevue, WA

- Worked in Responsible AI to develop a REST API leveraging AWS services to reduce manual resource screening
- Supported Alexa's Voice Deletion Promise, saving 200+ business hours per year on ticketing and triaging findings
- Designed, tested, and deployed a compliance list scan for efficient policy evaluation of critical data findings

CS 3600 - Intro to Artificial Intelligence

Jan 2024 – Present

Teaching Assistant

Atlanta, GA

- Researching plagiarism and educational technology tools under Dr Thad Starner
- Conduct office hours to aid student understanding of concepts like reinforcement learning and decision trees

MessageGears LLC

May 2023 – Aug 2023

Software Engineering Intern

Atlanta, GA

- Migrated the core product to a React and TailwindCSS stack from Angular JS using the agile methodology
- Implemented 10+ components, including a new navbar, a modal, and a wrapper to process API responses
- Created 50+ automated tests using React Testing Library and Cypress to ensure robustness of the new navbar
- Identified and resolved 20+ bugs in JSP and Angular resulting in fulfilled client requests and better user experience

Georgia Tech Foundation Inc.

Jan 2023 – May 2024

Quantitative Research Intern

Atlanta, GA

- Productionized portfolio (\$2.6Bn) active risk across all asset classes including fixed income and private equity
- Automated portfolio analytics using time series analysis, adding 35+ benchmark relative metrics, correlation matrices, convexity plots, drawdown charts, etc. to improve analysis for public equities and hedge funds
- Analyzed \$350 Mn of public equity holdings to minimize long term annualized tracking error to 4% over 5+ years
- Streamlined, documented, and modularized code resulting in 30% code reduction and 50% faster run times

Institute of People and Technology at Georgia Tech

Aug 2022 – Present

Research Assistant

Atlanta, GA

- Fetched tweet data for 1,400,000+ tweets using Twitter API and stored them in a MySQL database
- Pre-processed and cleaned data, followed by classifying languages using spaCy
- Utilized a Linux environment in an Azure VM to conduct sentiment analysis, topic modeling, and LIWC analysis
- Submission titled "China's Presence in Africa: A Social Media Perspective", under review for ACM ICTD 2025

PROJECTS

Styles.Compare | Python, GPT, Web Dev, Selenium

Jan 2023 – May 2023

- Won a hackathon, using a multimodal LLM to vectorize clothing items and create a fashion pairing engine
- Scraped images, generated descriptions, and performed similarity searches using vector db

Movie Success Predictor | Scikit-Learn, Pandas, Numpy, Keras

Aug 2022 – Dec 2022

- Developed models like regression, random forests, K-means, and used NLP to predict the success of a movie script
- Utilized feature scaling, dimensionality reduction, and data cleaning to improve the performance of the models

TECHNICAL SKILLS

Languages: Python, Java, SQL, HTML/CSS, TypeScript, Kotlin, C

Libraries & Frameworks: Numpy, Pandas, Scikit-Learn, Keras, TailwindCSS, Jest, Selenium, React, NextJS, Django, JUnit, SQLite, Matplotlib, Xlsxwriter, spaCy, Tensorflow, DynamoDB

Developer Tools: Git, Docker, AWS, Microsoft Azure, Android, Jenkins, Cypress