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 AGI — May 2024 – Present
Software Development Engineering Intern — *Bellevue, WA*
- Working in Responsible AI to develop a REST API leveraging AWS services to reduce manual resource screening
- Supporting Alexa's Voice Deletion Promise, saving 200+ business hours per year on ticketing and triaging
- Designed, implemented, tested, and deployed a compliance list scan for efficient policy evaluation of critical 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 AAAI ICWSM 2025

PROJECTS

Styles.Compare | *Python, GPT, Web Dev, Selenium* — Jan 2023 – May 2023
- Developed app to suggest fashion pairings across multiple brands for user uploaded clothing items
- Scraped images, generated descriptions, and performed similarity searches for accurate recommendations

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