Pranay Begwani

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EDUCATION

Georgia Institute of Technology   GPA: 3.96
Bachelor of Science in Computer Science   *May 2025*

EXPERIENCE

Teaching Assistant   Jan 2024 – Present
CS 3600 - Intro to Artificial Intelligence   *Atlanta, GA*
- Responsible for grading homework and assessments and conducting office hours to help students with concepts such as reinforcement learning, decision trees, search, and probability

Software Engineering Intern   May 2023 – Aug 2023
MessageGears LLC   *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 and an edit modal using Headless UI, as well as a wrapper to process and display data from 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

Quantitative Analyst Intern   Jan 2023 – Present
Georgia Tech Foundation Inc.   *Atlanta, GA*
- Analyzed $350 Mn of public equity holdings to minimize long term annualized tracking error to 4% over 5+ years
- 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
- Streamlined, documented, and modularized code resulting in 30% code reduction and 50% faster run times
- Conducted diligence of quant, market neutral, and systematic strategies to diversify endowment's $2.5 Bn portfolio

Research Assistant   Aug 2022 – Present
Institute of People and Technology at Georgia Tech   *Atlanta, GA*
- Fetched tweet data for 1,400,000+ tweets using Twitter API and stored them in a MySQL database
- Conducted thorough pre-processing and cleaning of data, ranging from removing stop words to categorzing them by regions and countries, followed by classifying tweet languages using spaCy
- Utilized a Linux environment in an Azure VM to conduct sentiment analysis, topic modeling, and LIWC to study, support, and reinforce tweet emotions respectively
- Compiled an annotated bibliography and literature review of 50+ relevant research papers to develop research thesis

PROJECTS

Frogger Android Game | *Android, Java, XML, Git*   Jan 2023 – May 2023
- Collaborated to analyze product needs and used agile methodology to design, implement, and test an Android game
- Ensured software adherence to industry-standard software design principles such as SOLID and GRASP

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

Laboratory Manager | *Django, HTML, CSS, MySQL*   Jan 2021 – May 2021
- Developed a web app using Django and MySQL to track bookings for 30+ labs, reducing double bookings by 70%
- Helped stakeholders keep track of 2000+ equipment in laboratories and reduced misplaced equipment by almost 50%

TECHNICAL SKILLS

Languages: Python, Java, C/C++, SQL, HTML/CSS, R, TypeScript
Libraries & Frameworks: Numpy, Pandas, Scikit-Learn, Kera, TailwindCSS, Jest, Selenium, React, NextJS, Django, JUnit, SQLite, Matplotlib, Xlsxwriter, spaCy, Tensorflow
Developer Tools: Git, Docker, Microsoft Azure, Android, Jenkins, Cypress