ROHIT TUTEJA

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Entry level software engineer, experienced in solving real-world problems, and in working with the data needed to do so. Interested in using computing to make complex tasks more efficient to accomplish.

EDUCATION

Georgia Institute of Technology   *Fall 2020 - Fall 2023*

- B.S. in Computer Science: Intelligence - Modeling/Simulation   3.6 GPA

Relevant Courses

- Object Oriented Programming, Data Structures, Design/Analysis of Algorithms, Intro to AI, Intro to Computer Vision, Computational Modeling Algorithms

PROJECTS AND EXPERIENCE

Yellow Jacket Space Program - Flight Dynamics Team   *Fall 2021 - Present*

- Aerodynamics and Stability Subteam: Ensuring the program's rockets are aerodynamically stable
- Reworked code for the in-house trajectory simulator to accept a new 2D aerodeck format, simplifying the codebase and making it easier to work with and understand
- Implemented a more efficient gridded interpolation method for approximating missing data in the new aerodecks, which resulted in a 25% increase in overall simulator runtime

Data Analysis Project   *Summer 2022*

- Performed data analysis in Python using NumPy, Pandas, and Seaborn with pre-made data sets
- Analyzed 2016 911 call data from Kaggle, finding and plotting data such as what times experience the most calls, what the most common reasons for calls are, what locations experience the most calls and for what reasons, and more
- Used Pandas to retrieve stock data on major US banks from 2006 to 2016, and used said data to create charts on returns over time, technical analysis plots, seeing how the banks performed over time, where and when they crashed, how they performed compared to each other, etc.

SpotifyRT - Developer   *Fall 2021*

- A React.js based web player with a color reactive background, displaying album art, song title, and artist name with a time-synced progress bar
- Uses Spotify's login API to syncs to your music in real time, able to control music on any device logged in to Spotify, with fully functional play, pause, and skip track buttons
- All functions implemented through calls to Spotify's own music player APIs

HatefulAI - Co-Creator   *Summer 2021*

- A JavaScript based personal assistant that's rude to the user
- Uses the OpenWeatherMap API to get real time weather specific to your location, updated on every request, and the WebSpeech API for speech recognition and synthesis
- Text is transcribed and displayed real time, showing the input query and output response

IPSD Summer Robotics Camp Mentor   *Summer 2019, Summer 2021*

- Worked with kids aged 11-14 to introduce them to the VEX Robotics Competition scene and how to build and code on the VEX V5 platform during a 2 week summer camp

SKILLS AND STRENGTHS

- Python: Numpy, Pandas, Matplotlib, Seaborn, Plotly/Cufflinks, Java, C, MatLAB, Javascript, React, VSCode, IntelliJ, CLion, Docker, Git, Anaconda, WSL, Microsoft Office, Unix, Bash, RASAero II, Tableau
- Teamwork, time management, effective communication, independent, problem solving, adaptable, quick learner