# 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.

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## EDUCATION

**Georgia Institute of Technology**                                                   *Fall 2020 - Present*

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

Relevant Courses

- 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 Kaggle's 2016 911 call data finding and plotting data such as most frequent call time, place, and reason, looking at calls made and their relation to combinations of all said factors
- Used Pandas to retrieve stock prices on major US banks from 2006 to 2016, creating charts on how each bank's returns performed over time on their own and compared to each other, and performing technical analysis on the stocks over time

**SpotifyRT** - Developer                                                                       *Fall 2021*

- A web player for Spotify built in React, with reactive background and all expected features
- Syncs to your music off any device in real time by logging into Spotify via their own login API
- All functions implemented through calls to Spotify's own music player APIs

**HatefulAI** - Co-Creator                                                                    *Summer 2021*

- A JavaScript based personal assistant that provides a confrontational experience to the user
- Uses OpenWeatherMap and WebSpeech APIs for live weather and speech synthesis/recognition
- Transcribes and displays spoken input and generated output in real time

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

- **Coding Languages:** Python (Numpy, Pandas, Matplotlib, Seaborn, Plotly/Cufflinks), Java, C, MatLAB, Javascript, HTML/CSS, React
- **Tools:** VSCode, IntelliJ, CLion, Docker, Git, Anaconda, WSL, Microsoft Office, Unix, Bash, RASAero II, Tableau
- **Workplace:** Team player, good time management, familiar with Agile development practices, effective communication, independent, problem solver, adaptable, quick learner