ROHIT TUTEJA

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OBJECTIVE

To gain experience in the topics and projects where computer science models the real world, and using these models to help development of new technologies.

EDUCATION

Georgia Institute of Technology   Junior Standing

 B.S. in Computer Science - Modeling/Simulation and Intelligence   3.52 G.P.A.

 Minor in Physics

SKILLS   *(listed most proficient to least)*

Programming Languages:

 Java, C, Python, Javascript, HTML, CSS, LC-3 Assembly, MatLAB

Development/Tools:

 WSL, Git, Microsoft Office, Bash, Unix, React.js, CircuitSim, RASAero II, Tableau

RELEVANT CLASSES

- Object Oriented Programming, Data Structures/Algorithms, Computer Organization/Programming, Intro to Artificial Intelligence, Systems and Networks, Design/Analysis of Algorithms

PROJECTS AND ACTIVITIES

Yellow Jacket Space Program   Fall 2021 onwards - Flight Dynamics Team

- Aerodynamics/Stability Subteam Member
- Responsible for ensuring static and dynamic stability for the club's subscale and full-scale rockets
- Using RASAero II and an in-house 6 degrees of freedom trajectory simulator to determine most effective fin size based on desired static margins
- Performed a mass vs. fin size analysis to determine how much fin size would change based on shifts in the rocket's center of gravity
- Working on refactoring trajectory simulator code to work with a new aerodeck format and on an improved data interpolation method

Yellow Jacket Flight Club   Fall 2021 onwards - Club Member

- Student Pilot
- Learning how to operate and maintain general aviation aircraft
- Working towards a Private Pilot License (July 2021 onwards)

Hateful AI   Summer 2021 - Co-Creator

- A Personal Assistant That Doesn't Like You
- Co-developed a basic web-based personal assistant using JavaScript, stylized with CSS
- Implemented OpenWeatherMap and WebSpeech APIs to provide speech recognition/synthesis along with weather information
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Spotify RT   Fall 2021 - Developer

- A Basic Spotify Web Player
- Using React, built a basic Spotify web player
- Shows the current song, a progress bar, artist and song name, along with play, pause, and track skip buttons