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   Expected class of 2024

  Computer Science B.S. - Modeling/Simulation and Intelligence   3.53 G.P.A.
  Minor in Physics

SKILLS

Programming Languages:
  Proficient: Java; **Intermediate:** Javascript, HTML, CSS, MatLAB, C; **Beginner:** Python, Glowscript (VPython), LC-3 Assembly

Development/Tools:
  Proficient: WSL, Git; **Intermediate:** RASAero II, Bash, React.js, CircuitSim; **Beginner:** SolidWorks

Relevant Classes:
  - Object Oriented Programming, Data Structures/Algorithms, Computer Organization/Programming, Intro to Mechanics, Intro to Electricity/Magnetism

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 rocket
  - Using RASAero II and an in-house MatLAB 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
  - Aided Launch Structures on Electrical Equipment box design in SolidWorks

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
  - Worked with a partner to manage versions and coordinate who implemented which feature

Yellow Jacket Flight Club   Fall 2021 onwards - Club Member
  - Student Pilot
  - Learning how to operate and maintain general aviation aircraft
  - Gaining basic applicable knowledge on aerodynamics and stability as it relates to aircraft
  - Working towards a Private Pilot License (July 2021 onwards)

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.