

# 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.

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## 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; Beginner: Python, Glowscript (VPython), LC-3 Assembly, C

### **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 trajectory simulator with 6 degrees of freedom to determine most effective fin size based on desired static margins
- Performed a mass to fin size analysis to determine how much a change in mass would affect fin size to allow Structures team to know how accurately they need to weigh the craft
- 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 that shows the current song, a progress bar, artist and song name, along with play, pause, and track skip buttons.