ROHIT TUTEJA

rtutejajr@gmail.com // (630) 885-0229 // Aurora, IL, 60504

linkedin.com/in/rohituteja // rohituteja.github.io/rohitsite

EDUCATION

Georgia Institute of Technology   Atlanta, GA

Bachelors of Science in Computer Science   *August 2020 - Present*
- Modeling/Simulation and Intelligence Threads, 3.6 GPA, awarded Dean's List all semesters

EXPERIENCE

Yellow Jacket Space Program Flight Dynamics Team   Atlanta, GA

Software Engineer   *August 2021 - Present*
- Ensuring aerodynamic stability by sizing rocket fins and running Monte Carlo simulations for validation
- Validated current fin sizing by running a necessary fin dimension vs. rocket center of gravity analysis, confirming that fin dimensions stay within 1% of necessary to handle changing mass in flight
- Improved in-house MatLAB trajectory simulator runtime by 25% with new data interpolation functions
- Streamlined workflow for generating necessary aerodynamic coefficient data used by the simulator by implementing support for 2D aerodecks

Movie Grub   Atlanta, GA

Communications Director, Software Engineer   *August 2022 - Present*
- Working in a student led team on behalf of Georgia Tech with MovieGrub LLC to develop a platform to order movie snacks ahead of time instead of waiting in line, saving up to 30 minutes when lines are long
- Responsible for all communications with the client, doing so 1-on-1 and speaking for a team of 5, scheduling meeting times, discussing requirements, sending deliverables, etc.
- Developing a theater side web-app and client side mobile apps using MySQL, Python, JavaScript, and the Flask API, all under Agile development practices over the course of five 2 week long sprints

IPSD Summer Robotics Camp   Aurora, IL

Volunteer Mentor   *July 2019, 2021*
- Introduced children ages 11-14 to the VEX Robotics Competition scene and the VEX V5 platform
- Taught 6 teams how to build and program their robots and held a mock tournament at the end of camp

PROJECTS

Data Analysis Project   *June 2022 - July 2022*
- Using 911 call data from Kaggle, found relationships between most frequent call time and reason, most frequent call place and reason, and most frequent call time and place, visualizing all with multiple plots
- Retrieved data on stock prices for 6 major U.S. banks from 2006 to 2016, performing technical analysis and uncovering when certain stocks crashed, how they performed with each other, and volatile market periods
- Used Python and libraries such as Numpy, Pandas, Seaborn, Matplotlib, and Plotly to do so

SpotifyRT   *October 2021*
- Built a Spotify web player using React that ties into Spotify's player APIs
- Provided seamless one-time login and authorization through calls to Spotigy's login API
- Designed functional buttons for play/pause and track skip along with live progress bar and displays for album art, song title, and artist name

HatefulAI   *May 2021 - July 2021*
- Developed with a partner a personal assistant that provides a confrontational experience to the user
- Created from the ground up in JavaScript, using OpenWeatherMap and WebSpeech APIs to provide speech synthesis and recognition as well as live, location based weather
- Implemented a 2-way text transcription display for input and generated output speech

SKILLS

Technical: Python (Numpy, Pandas, Matplotlib, Seaborn, Plotly/Cufflinks), Java, C, MatLAB, Javascript, HTML/CSS, React, VSCode, IntelliJ, CLion, Docker, Git, Anaconda, WSL, Microsoft Office, Unix, Bash, RASAero II, Tableau

Workplace: Team focused, good time management, Agile development practices, effective communication, independent, problem solver, adaptable, quick learner

Languages: Native speaker in English, Hindi; Intermediate proficiency in Spanish