

ASHRAFUL FERDOUS RAFSUN

Aerospace Engineering Aspirant | STEM Researcher | Space & Aviation Projects | Computational & Data-Driven Problem Solving

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PROFESSIONAL SUMMARY

Motivated STEM student with a strong interest in Aerospace Engineering, Computational Science, and Space Technology, with hands-on experience developing engineering and technology projects using programming and data-driven approaches. Experienced in building projects related to aircraft performance, rocket trajectory simulation, satellite tracking, and space missions, while independently exploring aerospace research and aerodynamic analysis. Strong foundation in Mathematics, Physics, Chemistry, and Biology, complemented by growing skills in programming, research, and technical problem-solving. Seeking opportunities to contribute to STEM research, engineering projects, and international academic programs while pursuing a future career in Aerospace Engineering.

EDUCATIONS

Uttarkhan Collegiate School | Dhaka 2026
Secondary School Certificate (SSC) CGPA : 3.50

• **Uttarkhan Collegiate School, Dhaka**

Uttara High School And College | Dhaka, Bangladesh Sep 2026 - Sep 2028
Higher Secondary Certificate (HSC)

PROJECTS

AeroPerf – Flight Performance Calculator | 🐙 Github Jul 2026 - Present
Front-End Developer

- Built an aviation-focused calculator for runway performance, MTOW, density altitude, wind, and safety calculations.
- Designed a **modern responsive interface** using **HTML, CSS, and JavaScript**.

Technologies / Tools Used : HTML5, CSS3, JavaScript

Global GPA Converter | 🐙 Github Jul 2026 - Present
Front-End Developer

- Developed a web-based **Global GPA Converter** to convert academic grades across different international grading systems into standardized GPA scales.
- Implemented an intuitive interface, enabling students to quickly compare and understand their academic performance across global education systems.

Technologies / Tools Used : HTML5, CSS3, JavaScript

SAT Score Predictor | 🐙 Github Jul 2026 - Present
Front-End Developer

- Developed an interactive SAT Score Predictor that estimates potential SAT performance based on practice-test results and user-provided performance data.
- Designed a user-friendly scoring interface with automated calculations, helping students track performance and identify areas for improvement.

Technologies / Tools Used : HTML5, CSS3, JavaScript

Scholarship Eligibility Checker | 🐙 Github Jul 2026 - Present
Front-End Developer

- Developed a **Scholarship Eligibility Checker** that evaluates student profiles against scholarship criteria such as academic performance, test scores, and eligibility requirements.
- Implemented an automated matching system to help students quickly identify potentially suitable scholarship opportunities and understand key eligibility factors.

Technologies / Tools Used : HTML5, CSS, JavaScript

AstroLaunch – Live Space Launch Tracker | 🐙 Github Jul 2026 - Present
Front-End Developer

- Developed a **responsive web app** to display live space launch data using REST APIs.
- Integrated real-time mission details and countdown functionality with **dynamic JavaScript**.

Technologies / Tools Used : HTML5, CSS3, JavaScript

ISS Live Satellite Tracker | 🐙 Github Jul 2026 - Present
Front-End Developer

- Developed a **web application** to track the International Space Station (ISS) in real time.
- Integrated live satellite location data using REST APIs and **dynamic JavaScript**.

Technologies / Tools Used : HTML5, CSS3, JavaScript

Rocket Trajectory Simulator | 🐙 Github Jul 2026
Front-End Developer

- Developed an **interactive rocket trajectory simulation** using **JavaScript**.
- Implemented mathematical calculations to visualize projectile motion and flight paths.

Technologies / Tools Used : HTML5, CSS3, JavaScript

PROJECTS

NASA Mission Control Dashboard |  Github

Aug 2026 - Present

Front-End Developer

- Developed a **mission control dashboard** to display NASA mission and space-related data.
- Integrated REST APIs to fetch and present dynamic mission information.

Technologies / Tools Used : HTML5, CSS3, JavaScript

SKILLS

Languages :	Bengali, English
Programming Languages :	HTML5, CSS3, JavaScript
Soft Skills :	Problem Solving, Critical Thinking, Research, Communication, Teamwork
Tools & Platforms :	Git, GitHub, GitHub Pages

EXTRACURRICULAR ACTIVITIES

School & Local Soccer Player

Represented the school football team

- Actively played for a local club, and won a local tournament championship.

RAJUK National SciSpark 4.0

Presented a STEM project

- Received a participation certificate.

Photography

Building a portfolio

- Developing visual storytelling and composition skills.

Aquarium Ecosystem Management

Independent Hobby

- Maintain a freshwater aquarium by monitoring pH, ammonia, nitrite, nitrate, chlorine, and temperature.
- Apply water chemistry and biological filtration principles to maintain a stable aquatic ecosystem.
- Troubleshoot water quality issues through testing and preventive maintenance.