

Shafin Ula

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EDUCATION

Dulles High School

Sugar Land, TX

Math and Science Academy

Aug. 2021 – Present

- *Relevant coursework: AP Physics 1, AP Physics 2, AP Physics C, AP Statistics, AP Calculus BC, AP Computer Science Principles, AP Computer Science A*

EXPERIENCE

Research Assistant

Dec. 2023 – Jan. 2024

University of Houston - Cullen College of Engineering

Houston, TX

- Assisted Professor Yi-Chao Chen with his research on the mechanics of respiratory muscles
- Created graphical code based on mathematical models for simulations
- Created and Analyzed Data based on graphical coordinates.

Intern

June 2023– July 2023

Comet

Sugar Land, TX

- Collaborated with engineers and other departments to develop effective strategies and test plans
- Contributed to product development by providing feedback and thoughtful recommendations
- Collaborated in groups in using CAD to complete engineering projects.

Mathematics Tutor

Jan 2023 – Dec. 2023

Tutor Doctor

Sugar Land, TX

- Prepared and taught lessons on middle school math topics for students
- Helped prepare students for mathematics based competitions.
- Provided additional support outside of scheduled sessions

PROJECTS

Internal Temperature Simulation| *Python, Math*

June 2023

- Developed a code that produced the internal temperature of an object during heating
- Used data collection techniques to build dataset used in code
- Used mathematical formulas in creating a simulation graph..
- Produced various plots summarizing the results of the simulation

Contour Airflow Plot | *Python, Physics, Math*

June 2023

- Developed a code with Rice University Undergrad students that plots the contour airflow over a car
- Created data plots and graphs from simulation to analyze results
- Integrated physics and mathematics formulas to accurately simulate the airflow

Certifications

- **Autodesk Fusion 360 Certified User** - Issued May 2022
- **Software Engineering Virtual Experience Program-** JPMorgan Chase & Co. - June 2023
- **Software Engineering Virtual Experience Program-** Datacom - April 2023

Awards

- **AP Honor with Distinction**

- **2x AIME Qualifier (Score of 5 on AIME II)**
- **7th place Mathematics TMSCA State - 2023**
- **2nd place Regional Software Development**
- **7th place Regional Data Science/Analytics**
- **10th Place Regional Drone/AUV**
- **Chinero UIL (2nd place Math, 3rd place Calculator)**