

HAMZA HAQUE

Objective: Incoming undergraduate freshman looking to obtain research experience in Computer Science and STEM fields.

SKILLS:

Java, Python, C#, Javascript, MySQL, Software troubleshooting, Adobe Premiere Pro, Audio Editing, Fusion 360, Mathematics, Library Services, Tutoring, English, Spanish, Urdu, Hindi, AWS, Firebase, Android App Development

EDUCATION:**Southern Methodist University****Bachelors of Science (Computer Science) - May 2027**

- Second Major/Minors Undeclared
- Transfer Credits: 65 Credits

Collin College**Associate's of Science (General Studies) - December 2024**

- Multivariable Calculus, Linear Algebra, Discrete Math, Differential Equations

Plano East Sr High School**Expected Graduation: May 2024**

- AP Computer Science A, AP Calculus BC, AP English III, AP Environmental Science, AP Physics C, AP US History

PROFESSIONAL EXPERIENCE:**Cyber Security Research Intern | University of Texas at Dallas****May 2022 – July 2022**

- Developed skills in cyber security related to secure database management systems, secure cloud computing, and utilizing machine learning for malware detection.
- Created a MySQL and Python project to create a secure database management system with a query handler.
- Used Prolog for logic programming and explainable AI.

Governor's Champions' Academy Student | Governor's Champions' Academy @ SMU**July 2022 – Aug 2022**

- Developed skills in hardware security and basic digital logic design.
- Created a locking segment insertion bit network and verified it, being specific about constraints.
- Presented research on LSIBs and PMODs in a group.

Instructor | Kumon**September 2021 – Present**

- Gained proficiency in the Kumon method of instruction, fostering engaging learning environments for young students during shifts.
- Served as an effective communicator and team player, facilitating smooth operations and developing training programs for new staff.
- Actively engaged in professional development, demonstrating leadership by mentoring other instructors and contributing to team efficiency.

Robotics Team Software Lead | T.H. Williams High School**August 2021 – May 2022**

- Developed an autonomous and driver-controlled system using Java for the robot to operate during competitions.
- Automated development and planning for the robot's path during its autonomous period using Java.

PROJECTS:**Lunar Groundtracking using Keplerian Elements | Science Fair****Nov. 2021 – May 2023**

- Utilized Git and GitHub for source control and code collaboration and AWS for cloud capabilities.
- Developed a method of projecting an object's point on an equirectangular Lunar surface map.
- Developed an advanced Orbital Ground Tracking Program using Python, MATLAB, LaTeX, and multiple Python libraries.
- Created a comprehensive Executive Summary and Report, offering a line-by-line explanation of the program's code.
- Presented the final project to Texas A&M professors at the Texas Science Engineering Fair.
- Attracted the attention of prestigious organizations, including NASA, Governor Greg Abbott, and SpaceX, underscoring the project's significance and impact.