Onik Hoque

onikh.github.io
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1308 Vinehill Court, Allen, TX 75002

EDUCATION

Allen High School (AHS), Allen, TX
SAT: 1550 (770 EBRW, 780 Math)
PSAT NMSC Selection Index: 225

Weighted GPA: 4.38
Unweighted GPA: 3.81
Class Rank: 115/1677

11 AP Classes
10 Advanced Classes
Allen Gifted and Talented Program

HONORS AND AWARDS

- CyberPatriot XV National Finalist
- PicoCTF 2023 Top 1% Globally
- First Robotics Competition (FRC) 8th Place at State 2023

- National Merit Finalist
- Allen High School Top 10% Award
- AP Scholar with Distinction

- BEST (Boosting Engineering, Science, & Technology) Regional Competition Website Design Award 2023

ACTIVITIES

Allen High School Computer Science Forum   **2021 - Present**
President 2023 - 2024, Member 2021 - 2022, 2022 - 2023
Created activities to teach computer science topics in large group settings, managed budget and spending, organized local competitive programming competitions, organized electronics donation drive, competed in cybersecurity competitions at the national level

Allen High School Key Club   **2021 - Present**
Webmaster 2022 - 2023, Member 2021 - 2022, 2022 - 2023
Created and regularly updated website, created automated scan-in system with Python, organized collaborations with other volunteer organizations, volunteered in various activities such as making sandwiches for the homeless and packaging food for refugees

Allen High School Robotics   **2022 - Present**
Developer
Created organization website, created a scouting application to track data from other teams, competed at regional and state levels

Allen High School Junior World Affairs Council   **2022 - 2023**
Competitor
Competed in the Academic WorldQuest competition, consistently consumed news and self-studied specific topics and current issues in order to prepare to compete, participated in mock United Nations

Allen Sports Association Recreational Basketball   **2021 - Present**
Point Guard
Practiced and competed in a team setting, won 1st Place in the 2021-2022 Winter Championship

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FOR MORE INFORMATION, VISIT THE PROJECTS @ ONIKH.GITHUB.IO

PROJECTS

- Swish Lab: created iOS app for basketball that uses a custom object detection model to track made and missed shots and count dribbles. Available for download from onikh.github.io
- Pokemiguel: created top-down turn based battle RPG in Swift without an engine, using the IGIS library
- Gesture Recognition (In Progress): an Arduino device that plugs into a car stereo system and sits on the dash, allowing for stereo control via gestures

RELEVANT COURSEWORK

- Advanced Computer Science I - III
- Principles of Applied Engineering
- AP Calculus BC
- AP Spanish IV
- AP Physics I Algebra Based
- AP Physics C Mechanics

RELEVANT SKILLS

- Fluent in English, Spanish, and Bengali
- Experience in Swift, Python, Java, JavaScript, SQL, C#
- Experience with PyTorch, YOLOv8, CoreML
- Experience with AutoCAD and OnShape
- Hands-on experience with Arduinos, soldering, testing circuits with breadboards

VOLUNTEER WORK

Allen High School Key Club
- ~150 hours
- made sandwiches for the homeless, packaged food for refugees, cleaned up local streams and roads

National Honor Society
- ~30 hours
- organized and cleaned classrooms, set up school festivals, made mats for the homeless

Islamic Association of Allen
- ~15 hours
- distributed food to the unhoused, ran concessions

Allen Church of Jesus Christ of Latter-Day-Saints
- ~5 hours
- made care packages for refugees

PERSONAL SUMMARY

I'm a highly motivated worker with an ardor for innovation. I love to create practical things that I can use in my everyday life with my skills in both electrical engineering and computer science. Outside of school, I love both playing and watching basketball, listening to music.

My dream is to someday invent something practical and novel that can increase our quality of life.