

## EXPERIENCES

### **Programming and Engineering Club**                      **Founder & Co-coordinator**                      **10/20-05/21**

- Collaborated with the head of activities department and the fellow coordinator to launch this club
- Increased the members of the robotics club by 90% through this club by creating a bridge between block coding (from First Lego League) and object-oriented programming (high school robotics), teaching them the basics and, providing them with appropriate resources to explore and learn

### **Summer Internship at AISG**                      **Teaching Assistant**                      **06/20-08/20**

- Assisted in teaching the physics behind the structure and mechanism of bridges to 8<sup>th</sup> and 9<sup>th</sup> graders
- Introduced block coding to 2<sup>nd</sup> and 3<sup>rd</sup> graders through interactive activities during the week

## EDUCATION

- University of Massachusetts Amherst; Undergraduate Computer Science Freshman; Current GPA: 4.0  
Courses: CS 121 Intro to Problem Solving W/Comp, Math 132 Calc II, Physics I – Mechanics (Lab includes data analysis using Python)
- American International School of Guangzhou (AISG); International Baccalaureate Diploma Program; (2016 – 2021);  
Courses: Higher Level Physics, Chemistry, and Math, and Intro to Computer Programming: Problem Solving (Swift);  
Test Score: 43 out of 45

## LEADERSHIP AND AWARDS

- \$14,000 scholarship per academic year (2021) - Recipient of Chancellor's Award
- Honor Rolls (9<sup>th</sup> - 12<sup>th</sup> Grade) for having a GPA of 3.5 and above
- Science Student of the Year (2019) for maintaining academic excellence and demonstrating passion and enthusiasm
- Most Improved Player of my high school dance team (2019)
- Highest Honor Roll for 9<sup>th</sup> grade first semester (for a GPA of 3.9 and above)
- Robotics Club Coordinator (for high school): Communicated with the school officials about the club's concerns and advocated for our club desires
- Habitat for Humanity Club Coordinator: Organized fundraising events and the money collected was donated the main branch; conducted weekly meetings where we discussed about even ideas and I delegated each group a certain task to prepare for a particular event

## PROJECTS

### **NASA International Space Apps Challenge**                      **Front-end Programmer**                      **08/21**

- Wrote the entire content of the webpage which provided background information of the project and the Ganga Basin
- Adjusted the interface by adding visuals and breaking down/aligning the texts to make it visually appealing to the users
- Trained a Machine Learning (ML) model to predict the water equivalent thickness (WET) in different areas of the Ganga Basin and accordingly mine for underground water

### **TechTogether Boston**                      **Full-stack Developer**                      **09/21**

- Implemented SwiffUI to create a diagnostic quiz to test the prior knowledge of the user about finance, and recommended them resources based on their performance
- Added additional features to the display screen such as a progress bar for the quiz

### **VEX Robotics**                      **Main Programmer**                      **08/18-04/21**

- Collaborated with the driver of the robot to understand his preferences for the controller and accordingly programmed the buttons on it
- Designed the 15-seconds autonomous section of the competition where the robot tried to perform the specified task of that year's mission

### **Calculator App**                      **05/19**

- Customized the user interface of the calculator app on iPhone by adding additional features
- Connected two different screens using segues to connect the calculator to a scientific calculator

### **Weather App**                      **02/19**

- Parsed through a weather API (in JSON) and reported the requested data by the user to the screen (iOS Application)

## SKILLS

- Java; JavaScript; React.js; Swift; XCode; Python (Pandas, Numpy, Matplotlib); VEX C++; Figma