Pitch an idea for an app that would help with sustainability (examples could be recycling, food waste or energy). What features would it have, how would one of these features work and how would it positively impact the user of the app? **(200 word max limit)**

Many companies disregard the importance of sustainability overall. Therefore, I propose an app that predicts the long-term viability of companies by using carbon footprints as a metric for evaluation. Specifically, the app will predict the effect of a company's sustainability on its stock prices. Essentially allowing traders to design profitable carbon-neutral investment portfolios. In fact, investing in portfolios with good ESG (Environmental, social and corporate governance) and CSR (Corporate social responsibility) pays more, because it allows companies to better control risks. Thus motivating companies to improve their sustainability.

Using data from the GHG Emissions and ESG Dataset, we can use Transformers for time series forecasting to extrapolate future trends of a company's sustainability metrics, such as their carbon footprint. This data, in combination with stock prices, will aid inverters in making decisions based on sustainability. Hence, it compels businesses to increase their sustainability by adopting the use of clean energy.

Say you are trying to upload a photo to share with a photo sharing app. You see a non-specific error message, like "Sorry, something went wrong." List all the ways you can think of to try to fix or work around the error. **(200 word max limit)**

* I would retry sharing the photo again without any changes to ensure that it was not a one-time hiccup.
* Ensure a proper connection is established
  + Connected to WiFi that has internet
* I would check if all upload requirements are met
  + resolution
  + size
  + filename special characters
  + file extension
* Screenshot the image and try uploading it to ensure there is nothing wrong with the file.
* If the application requires a login, log out and then back in.
* I would clear the cache/cookies of the app/website.
* If the application is on a website, use a different browser/device. If it is an app, uploading the photo from a different device.
* I would try uploading from a different network.
* I would research the message along with the website for potential solutions and causes to the problem

Please rate your familiarity with the following CS concepts. Please be honest CSSI is a program for students who are just starting their CS journey.

HTML/CSS

Not at all familiar: I haven't had to use HTML/CSS for projects/school.

**Slightly familiar: I know how to use simple tags to add text and images to a webpage.**

Familiar: I can use HTML to create webpages and I understand how to apply styling using CSS.

Very familiar: I am comfortably creating and designing websites. I can teach other students about styling using ids and classes, responsive design, and adding almost any HTML element to their page.

JavaScript

Not at all familiar: I haven't had to use JavaScript for projects/school.

**Slightly familiar: I can write a simple JavaScript function to make an alert window pop up.**

Familiar: I understand DOM manipulation and/or event handlers.

Very familiar: I'm obsessed with JavaScript! I can teach other students about AJAX, jQuery, or the fetch() method.

Functions

Not at all familiar - I do not know what functions in programming are

Slightly Familiar - I know about functions and have used a built-in javascript functions in my code

Very Familiar - I understand the concept of arguments and parameters and have created functions using both concept

Classes

Not at all familiar - I do not know what classes in programming are

Slightly Familiar - I know about classes and have used a built-in or third party imported class in my code

**Familiar - I have created a class in my program and created at least one instance of the class**

Very Familiar - I know about advanced class concepts including abstraction and polymorphism and have used these concepts while creating my classes.

Does your high school offer an AP Computer Science class?

**Yes**

No

Have you enrolled or have you taken an AP Computer Science class?

Yes - I am enrolled in or have taken AP Computer Science Principles

**Yes - am enrolled in or have taken AP Computer Science A**

No - My school does offer AP Computer Science, but I am not enrolled in or have not taken it

N/A - My school does not offer AP Computer Science

Do you currently participate in any clubs or after school activities?

**Yes - A CS based club/activity**

Yes - A robotics club/activity

**Yes - Other STEM (Science, Technology, Engineering or Math) club/activity Yes - A non CS or STEM club/activity**

No

Please list any clubs or after school activities you currently participate in.

*Please separate by comma*

**Science Olympiad, Science Fair, Computer Fair, FBLA**

Do you currently hold a position of leadership in any club, after school activity, volunteer position, or job?

*Common examples of leadership may be tutoring students, managing other workers at a job, being in a leadership position of a club (President, Vice President, Treasurer, etc), founder of a club or activity, captain of a sports team, etc.*

**Yes**

No

What position(s) of leadership do you currently hold?

*Please separate by commas.*

**Science Olympiad Coordinator, Harrisburg Temple Youth Committee Member, Science Fair Program Leader**

Do you have a parent/guardian that currently works as or has previously worked as a software engineer?

**Yes**

No

Do you have a parent/guardian that currently works at or has previously worked at Google?

Yes

**No**

Have you participated in an organization that helps to support K-12 students learning how to code?

*Please answer yes if you have participated in any activities or clubs that support students who code. Common examples may be Girls Who Code, CS First, CodeNext, Black Girls Code, etc.*

Yes

**No**

Please select if you belong to any of the following organizations

If the organization is not listed above, please list your k-12 organization

*Please separate by commas.*

**Hackercrunch, Coder Kids**

Are you a first generation university student?

*A first generation university student is defined as someone who is the first in their immediate family to attend any kind of higher education post high school degree.*

Yes

**No**

I choose not to disclose

Are you eligible or have you applied for a Federal Pell Grant or Canadian/Provincial equivalent?

*See more information here: https://www2.ed.gov/programs/fpg/index.html*

**Yes**

No

I choose not to disclose

Our program is designed for students — especially students from groups that have been historically marginalized from tech and are committed to building a more equitable industry. We believe access to technology should not be a barrier to your involvement in the program. The CSSI team would like to know if you anticipate having any issues with the following. Please note that this will not disqualify your application

Reliable access to the internet

Reliable access to a computer or laptop

Reliable access to a webcam and microphone

**I don't anticipate having any issues with technology for the duration of this program**