

Caitlyn Parrish-Lewis - Computer Science Projects Resume

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Veolia Water Conservation Surveys

May - August 2025

- Basic and advanced water conservation surveys designed for Veolia customers to gauge their water usage at home and complete conservation tips to live more sustainably
- Responsible for the full-stack development, including suggesting changes from outdated wireframes, implementation, testing, and deployment to production
- Led to a part-time undergrad return offer from Veolia following the conclusion of summer internship
- Drupal 10, PHP, Twig, JavaScript

Veolia Water Conservation Survey

6/10

Do you have a dishwasher?



ENERGY STAR certified dishwashers use advanced technology to get your dishes clean while using less water and energy. A new, Energy Star certified dishwasher will save, on average, 3,870 gallons of water over its lifetime.

Yes, ENERGY STAR Dishwasher ?

Yes, but not sure what kind

BACK NEXT

Veolia Advanced Water Conservation Survey

12/13

Do you have a rain sensor or smart irrigation controller?



No
 I don't have a sensor or smart irrigation controller

Yes (Select all that apply) ?

Rain Sensor / Cut-off switch

Moisture / Soil Sensor

Smart Irrigation Controller

BACK NEXT

Results

Done! Thank you for taking the Conservation survey! Based on your initial answers, here are our results.

Inside your home



High water use, high savings potential

You use a lot of water indoors – we've got some tips that could help you save resources and money.

💡 See indoor water conservation tips

Outside your home



High water use, high savings potential

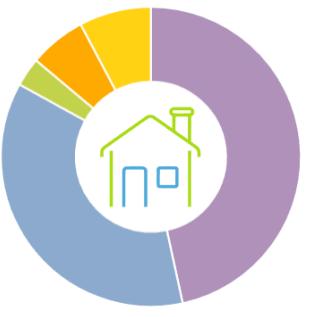
You use a lot of water outdoors – we've got some tips that could help you conserve water and save money.

💡 See outdoor water conservation tips

Your Water Efficiency Grade: C ?

Your score could use some work – complete [conservation tips](#) to save water in your home.

Indoor Water Usage



Category	Percentage
Toilets	46.60%
Showers & Bath	36.42%
Faucets	3.11%
Kitchen & Dishwasher	6.12%
Washing Machine	7.75%

Progress

16/29 Tips Completed.



You're a pro at completing tips and saving water! You got this!

Conservation Tips

ALL

HABITS

INDOOR

OUTDOOR

REPAIRS AND UPGRADES



Adjust your landscape to be green and "green"

Design a water-smart landscape that is both beautiful and efficient to give your home the curb appeal you desire. [Learn more.](#)

COMPLETED



Optimize your outdoor water usage

Experts estimate that 50% of the water we use outdoors goes to waste due to overwatering. Check out these tips to maximise your efficiency! [Learn more.](#)

COMPLETED



Pick locally native plants

Replace landscape plants with native plants that require less water [Learn more.](#)

COMPLETED

Personalized Recommendations and Tips

Thanks for your answers to the Advanced Conservation Survey. These personalized Recommendations are based on how you use water and should help reduce your consumption and save money.

Water Saving Tip 1: Replace your toilet

[Why am I seeing this?](#)

Replacing your toilet(s) could save you:



Water tanker truck is equal to 9,000 gallons of water

Potential Saving:

186.3 Gallons/Day

67,999.5 Gallons/Year

Water Saving Tip 2: Replace your showerheads

[Why am I seeing this?](#)

You are seeing this because you answered 'Before 1994' / to 'What is the age and type of your showerheads?'



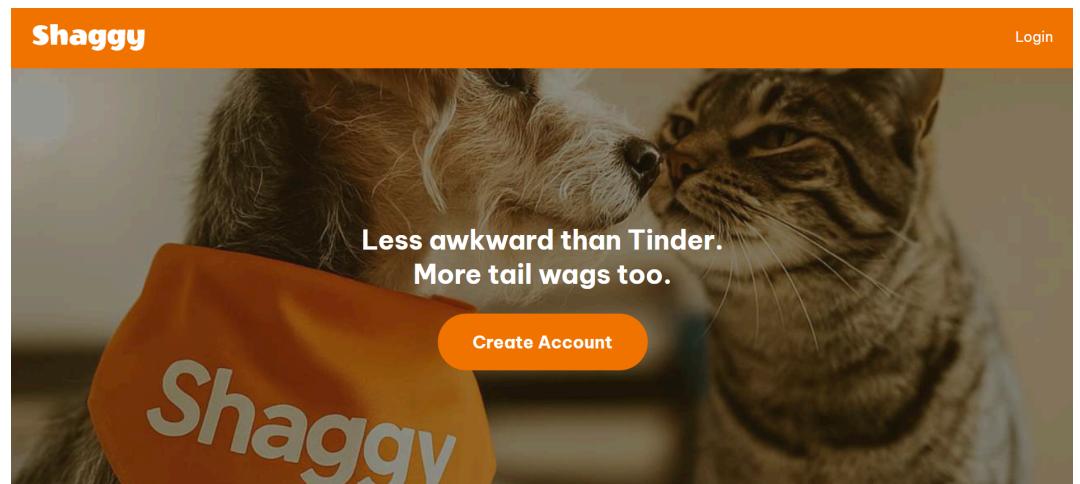
Water tanker truck is equal to 9,000 gallons of water

Potential Saving:

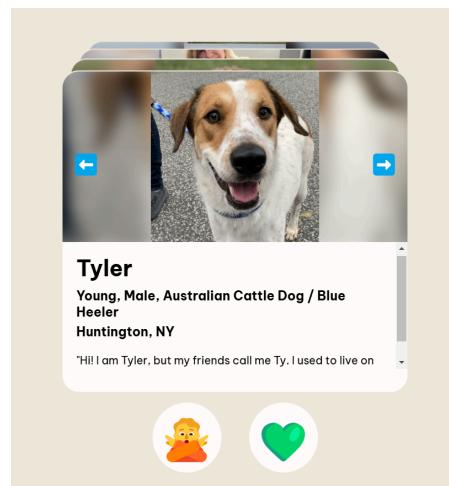
117.0 Gallons/Day

42,705.0 Gallons/Year

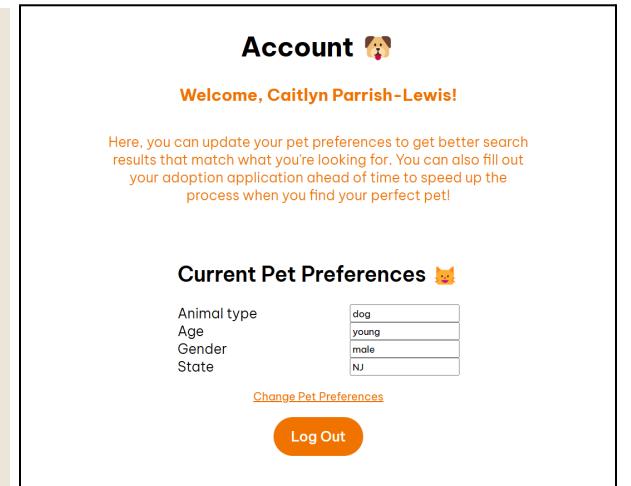
- Pet adoption webapp with the purpose of simplifying the process of finding a new furry friend
- Inspired by the ease of a Tinder-like swiping interface
- Uses Petfinder API to help find your perfect match
- HTML, CSS, JS, PHP, MySQL, Google Auth (with Firebase)



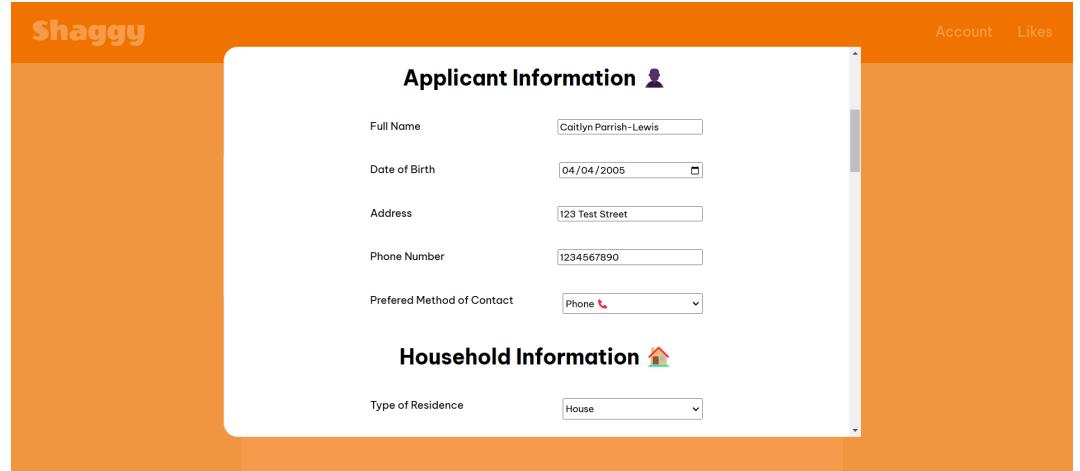
The landing page for Shaggy features a large image of a dog and a cat. The text "Less awkward than Tinder. More tail wags too." is displayed. A "Create Account" button is visible.



A pet profile card for "Tyler" is shown. It includes a photo of a dog, the name "Tyler", the breed "Young, Male, Australian Cattle Dog / Blue Heeler", and location "Huntington, NY". A bio states: "Hi! I am Tyler, but my friends call me Ty. I used to live on". Below the card are two circular icons: one with a yellow bird and another with a green heart.



The account settings page shows a welcome message for "Caitlyn Parrish-Lewis". It includes a section for "Current Pet Preferences" with dropdown menus for animal type (dog), age (young), gender (male), and state (NJ). Buttons for "Change Pet Preferences" and "Log Out" are present.



The application form is divided into sections for "Applicant Information" and "Household Information". The applicant information includes fields for Full Name (Caitlyn Parrish-Lewis), Date of Birth (04/04/2005), Address (123 Test Street), Phone Number (1234567890), and Preferred Method of Contact (Phone). The household information includes a dropdown for Type of Residence (House).

- Mock website for non-profit organization focused on initiatives and events to make Boston greener. Intended for Boston citizens interested in volunteering or donating
- Responsible for the design and code of the fixed elements (navigation bar and footer), homepage, contact page, and volunteer form page
- HTML, CSS, JS, jQuery

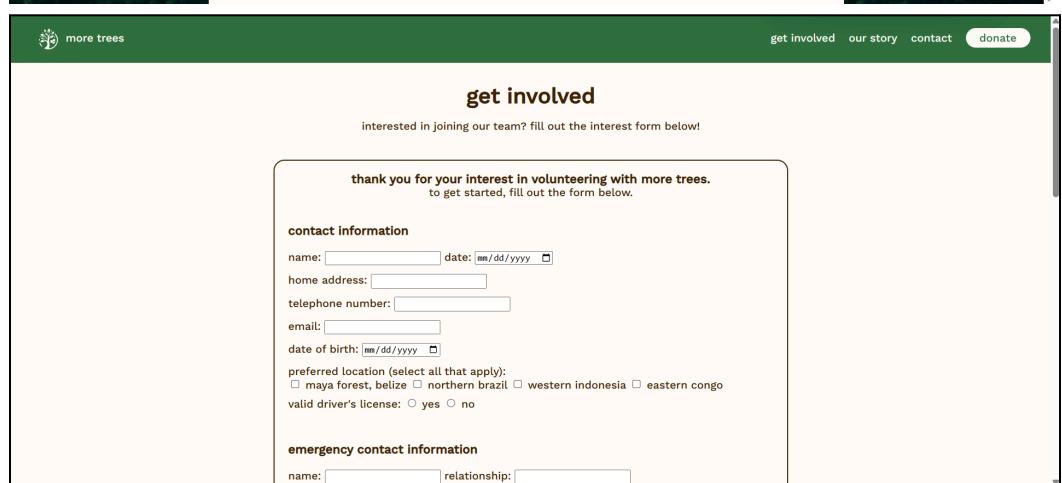
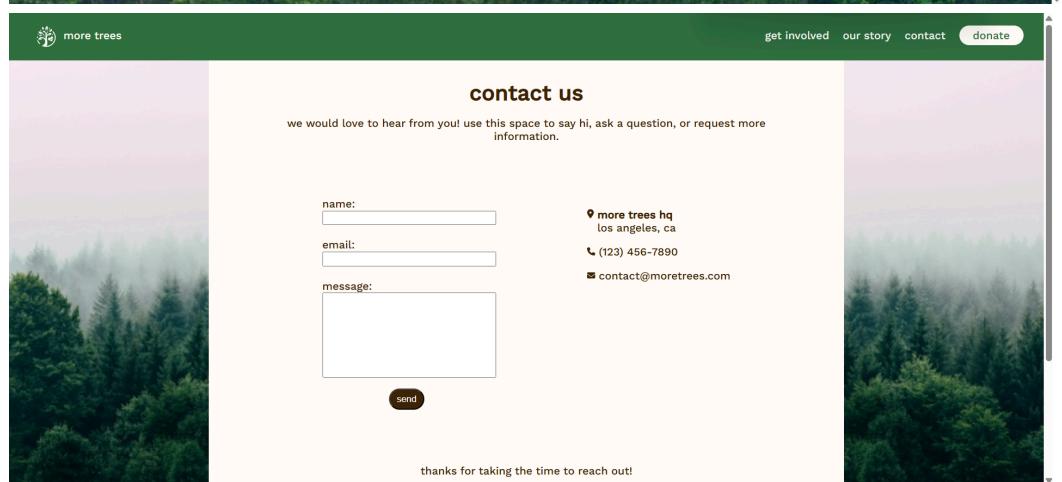
The image displays three vertical screenshots of the Greenify Boston website, each showing a different section of the site with its navigation bar at the top.

- Homepage:** Features a dark header with the "Greenify Boston" logo and navigation links for "Contribute", "About", "Contact", and "FAQs". The main content area has a light blue background with the heading "Help Boston Flourish". It includes a paragraph about volunteers planting trees and fighting for sustainable legislation, a "Learn More" button, and a silhouette of the Boston skyline. To the right is a large photograph of a park bench in a green, urban setting.
- Contact Page:** Features a dark header with the "Greenify Boston" logo and navigation links. The main content area has a dark blue background with the heading "Get in Touch". It contains three circular icons with white symbols: a location pin, a telephone, and an envelope. Below each icon are the names and contact details for "Greenify Boston HQ" (123 Green St, Boston, MA), "Greenify Boston Customer Services" (555 456-7890), and "Greenify Boston Customer Services" (cs@greenifyboston.com). A note below states: "We prioritize communication with our supporters. Reach out at any time with questions, concerns, or other comments."
- Volunteer Form Page:** Features a dark header with the "Greenify Boston" logo and navigation links. The main content area has a dark blue background with the heading "Join Our Team". A note says: "Interested in joining our Boston-based volunteer team? Fill out the form below!" Below is a form with a white background containing a thank you message, a note about required fields, and sections for "Contact information" and "Driver's License". The "Contact information" section includes fields for Name, Date, Home Address, Phone Number, Email, Date of Birth, and a note about valid driver's licenses with radio buttons for "yes" and "no".

More Trees

February 2025

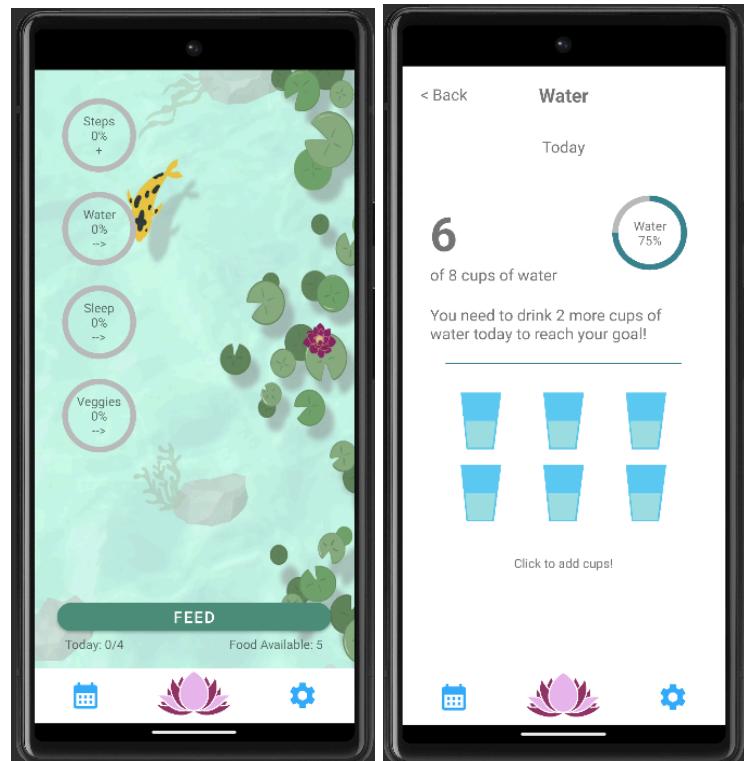
- Mock website for non-profit organization focused on planting trees around the globe
- Responsible for the entirety of the design and implementation of the website
- HTML, CSS, JS



Huntington Breast Cancer Action Coalition Mobile Wellness App

May 2022 - May 2024

- Wellness app made for HBCAC that allows users to create and track healthy habits in a fun, interactive way
- Users keep track of their habits by feeding and interacting with a customizable koi fish
- Responsible for **leading the front-end team** → Designed and implemented subpages and homepage
- Android Studio (Java), Dart, and Flutter

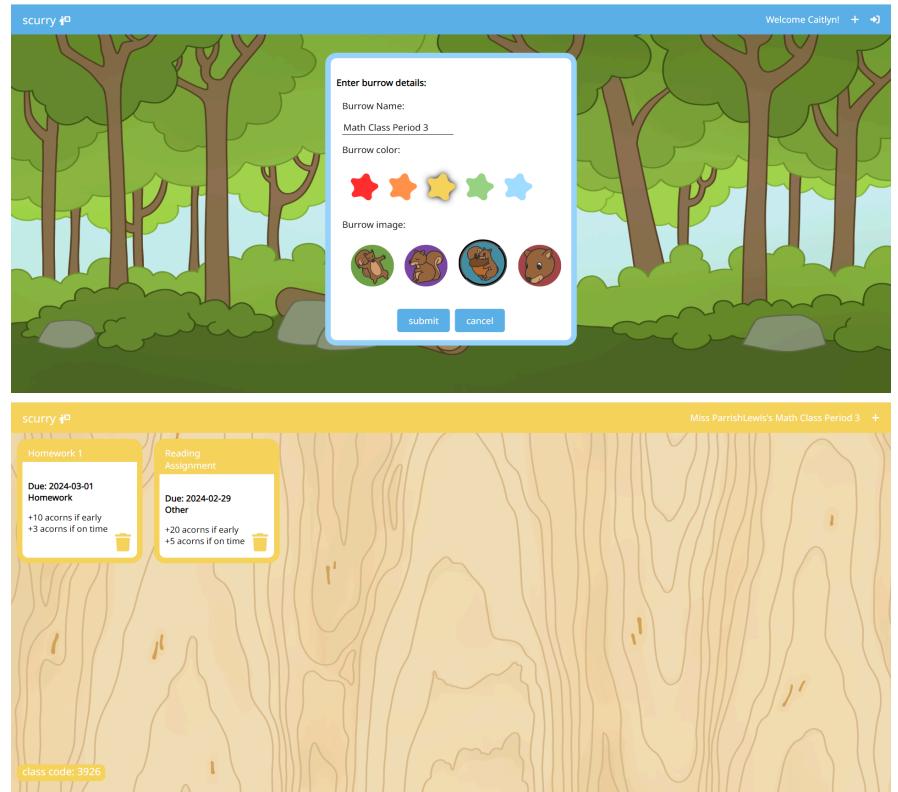


Scurry

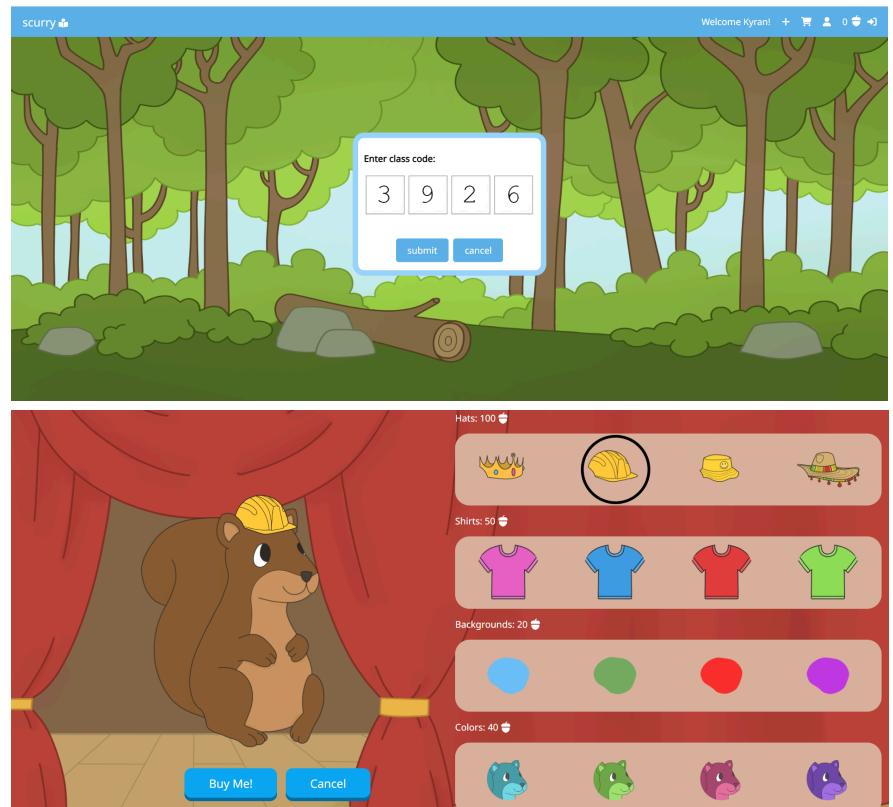
February - April 2023

- Learning management system that helps students stay productive in the classroom in a fun, interactive way
- Students are rewarded with currency by submitting quality assignments on-time or early
- Students can use currency to buy outfits and accessories for a customizable squirrel
- Includes both an admin/teacher and a student website
- HTML, JS, CSS, and Firebase
- **Received 1st in the State of NJ for TSA's 2023 Software Development Competition** → Qualified to compete nationally

Teacher Screenshots:



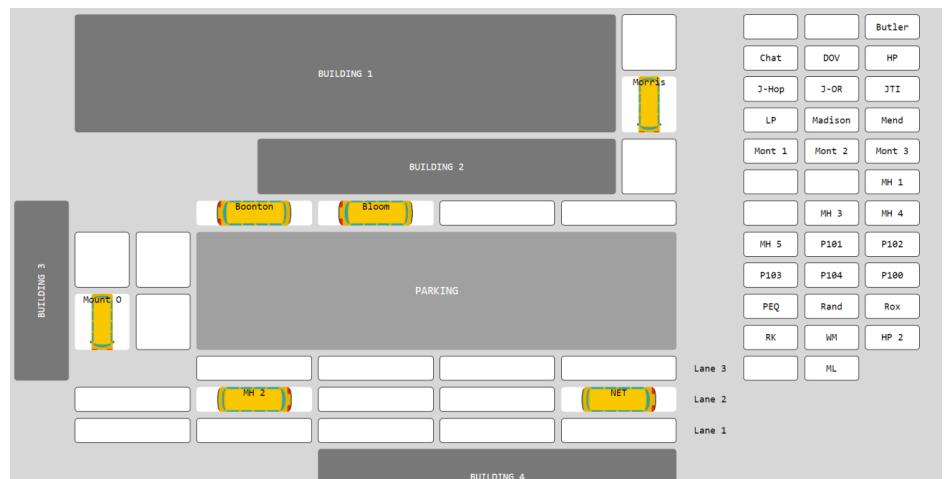
Student Screenshots:



MCST's Bus Application

October 2021 - June 2023

- Application to help direct students to their bus
- Created with the purpose of saving paper and making dismissal more efficient for my high school
- Designed and coded the layout for both MCST's student and admin bus application pages
- In active use to this day
- HTML, JS, CSS, and Firebase



Community Connect

March - May 2023

- Designed to bring communities together through service
- Allows users to request and provide help to nearby members
- **Won “Best Design” and “Best in Show” for CCM’s Mobile App Design Showcase**
- Android Studio (Java), Firebase



Artificial Intelligence Sign Language (AISL)

April 23, 2022

- Works to bridge the communication gap between ASL users and non-ASL users through AI recognition
- Responsible for translating camera input into written on-screen text and spoken language
- **Received 2nd place at hackMCST VII in Denville, NJ**
- HTML, JS, CSS, and TensorFlow



Peech Assistant

October - November 2021

- Designed to help people who have communication difficulties effectively engage with their peers
- Allows users to create cards that can be pressed to form written and spoken sentences
- HTML, JS, and CSS

