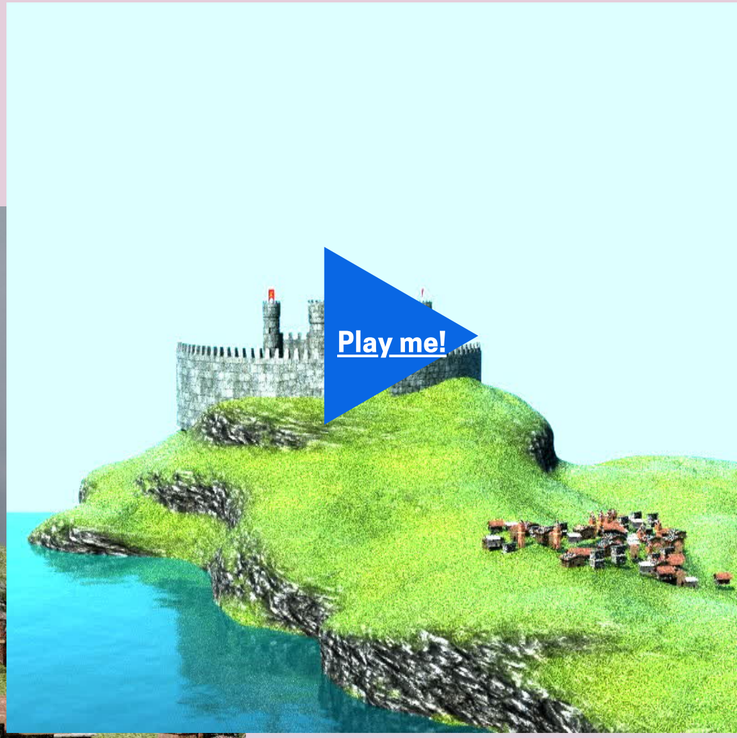
Chance Onyiorah

Throughout my time at the University of Florida, I was able to learn new skills both inside and outside the field of computer science. This portfolio showcases creative works from the last three years that I am especially proud of being a part of including work in web development, computer modeling, rapid prototyping, video editing and more!

Senior at University of Florida
Major: Computer Science
Minor: Engineering Innovation

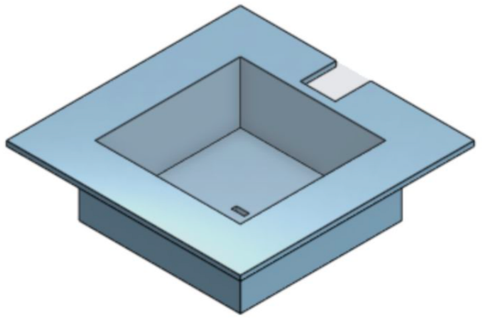
CASTLE FINAL PROJECT

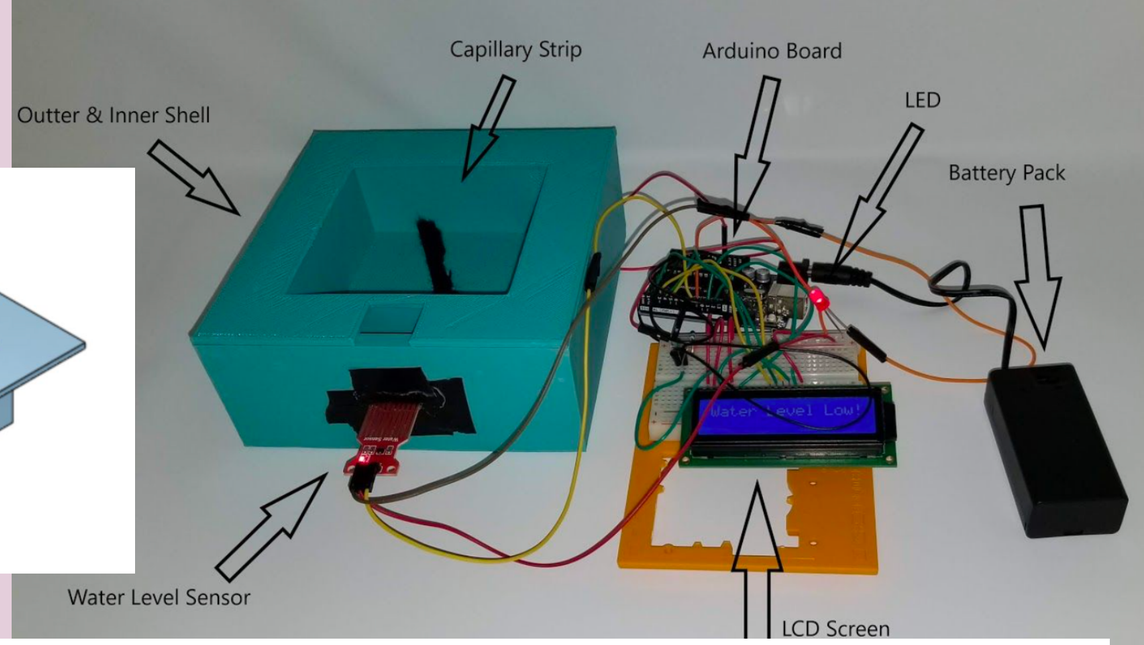
Date: Fall 2021
Class: Computer-Aided Modeling
Description: For our final partner project, we had to model a medieval setting featuring an indoor and outdoor scene using Blender software.
My Roles: For this project, I modeled and textured the castle structure, tables, chairs, tablecloths, food dishes, flowers, wine bottles and glasses for the inside dining room scene. I also assembled the full scene from both group members parts and added lighting to the inside scene.



HYDROTASK

Date: Fall 2019
Class: Engineering Design and Society
Description: HydroTask was crafted for a group class assignment to create a self-watering planter based on our user's human-centered needs. We made use of OnShape for 3D-modeling and 3D-printing and an Arduino Uno for circuitry that detects when the water level in the planter is too low.
My Roles: I was tasked with 3D modeling and printing the square box for the planter as well as the coding and circuits for displaying information on the LCD.

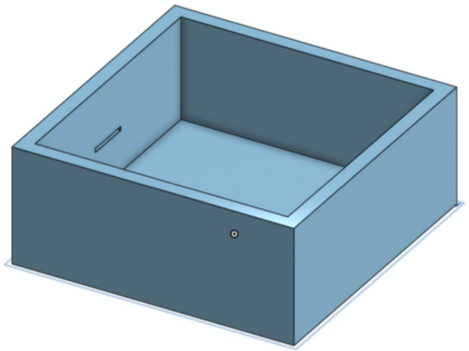


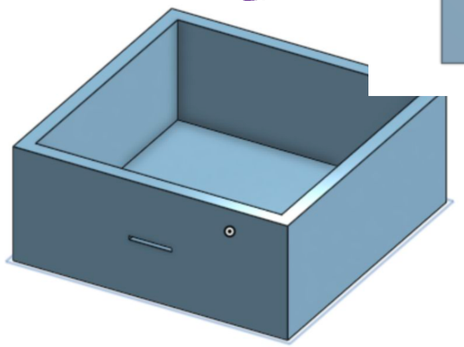


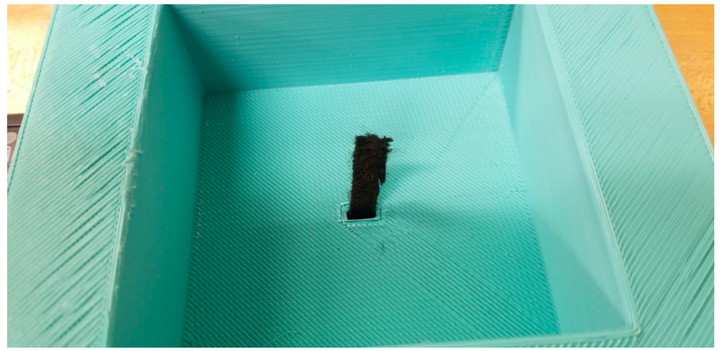
Click Here to View Report!

LCD screen when there is enough water

LCD screen when there is not enough water



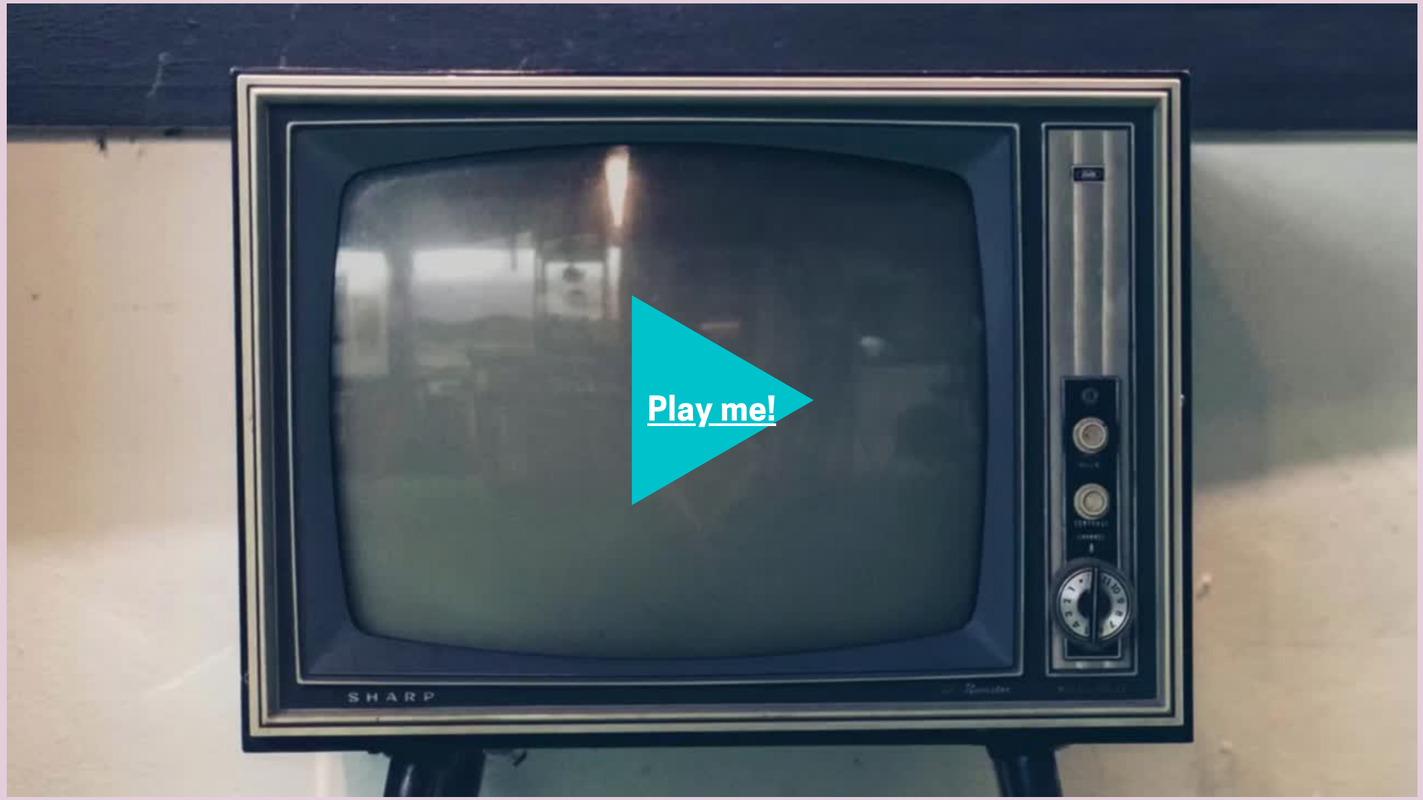


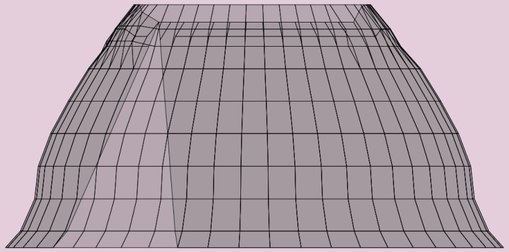


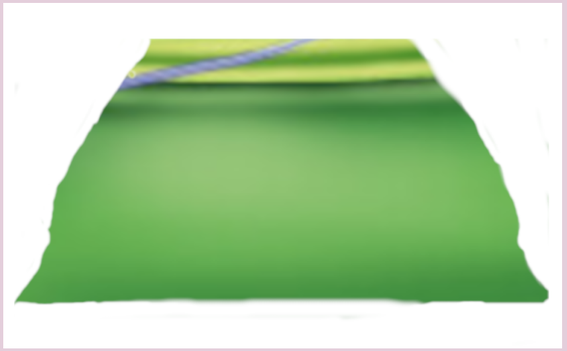
Capillary strip opening where soil would be in planter

VR COMMUNITY CENTER INFOMERCIAL

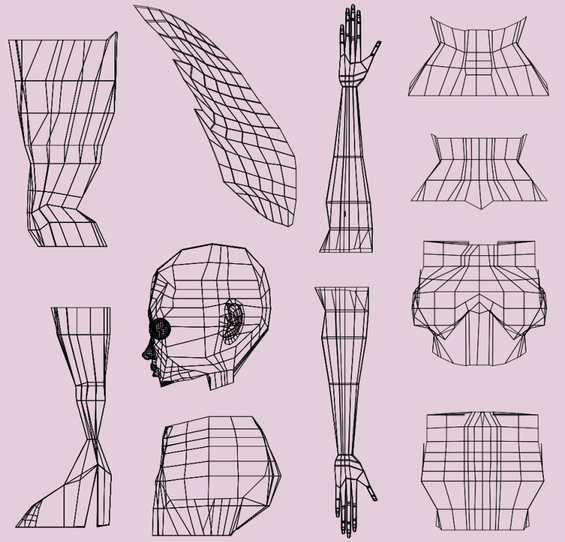
Date: Fall 2021
Class: Divergent Thinking
Description: After in-class brainstorming sessions, my group decided on a VR community center as a solution to the problem statement:
There are affordability and accessibility problems in using technology for elderly and children which also increases electric costs. How might we provide affordable and accessible technology to the elderly and children?
Our group filmed an infomercial to describe and advertise our solution.
My Roles: I helped with writing the script for the acting portions as well as edited the entire video to create an informative yet engaging presentation.



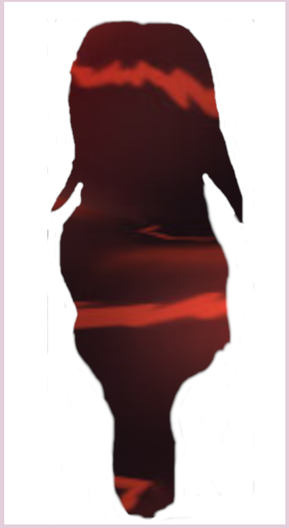




AISHA

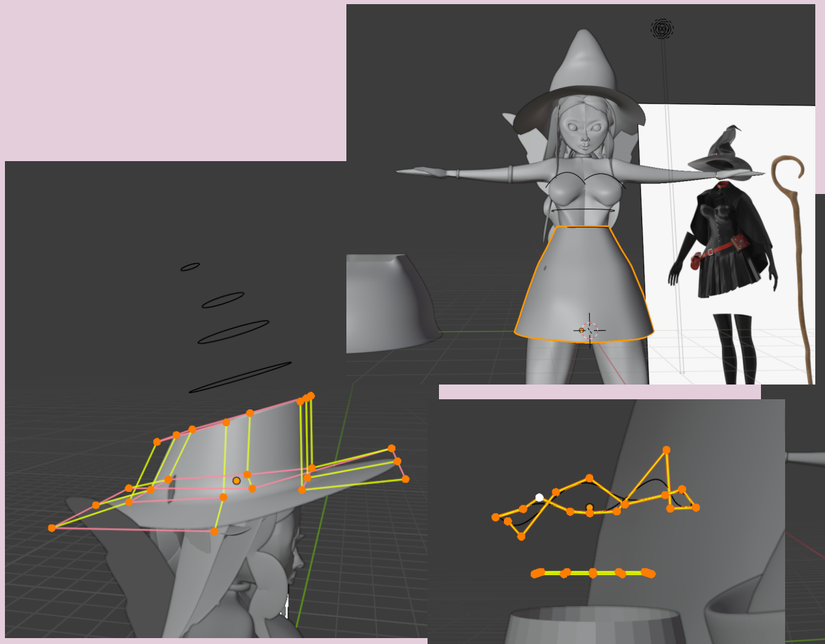


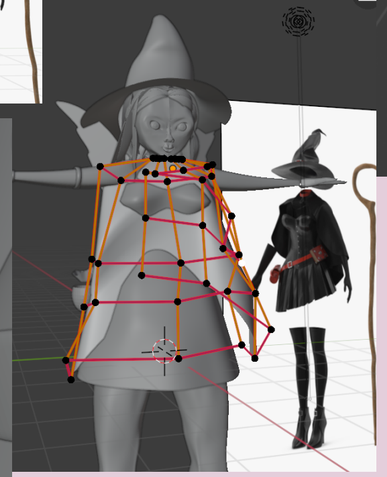
Date: Fall 2021
Class: Computer-Aided Modeling
Description: The assignment was to model and texture a character of our choosing using Blender software. I made use of concepts learned in class such as shell and UV mapping to create Aisha, a fairy from the show *Winx Club*. I also utilized GIMP for editing the mapping images.



WITCH AISHA

Date: Fall 2021
Class: Computer-Aided Modeling
Description: An extension of the last project, my character has been invited to a Halloween party and needs a costume. I utilized Blender to dress Aisha as a witch. This was a practice of newly learned techniques of curve and NURBS modeling to create the cloth and organic material.





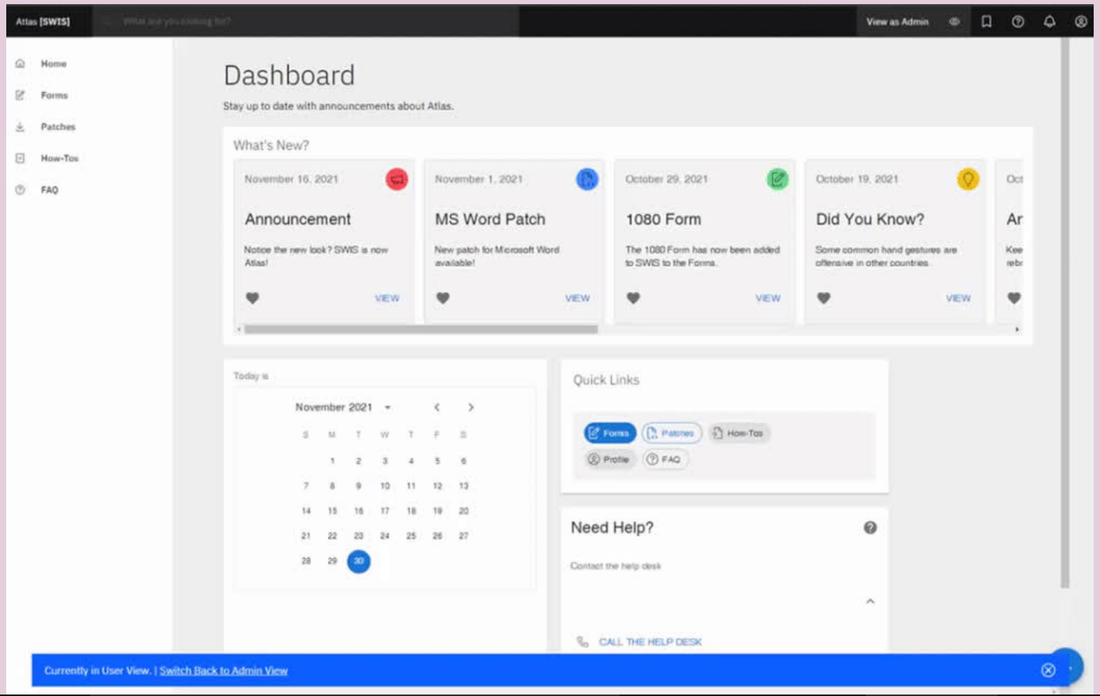
SWIS PROTOTYPE

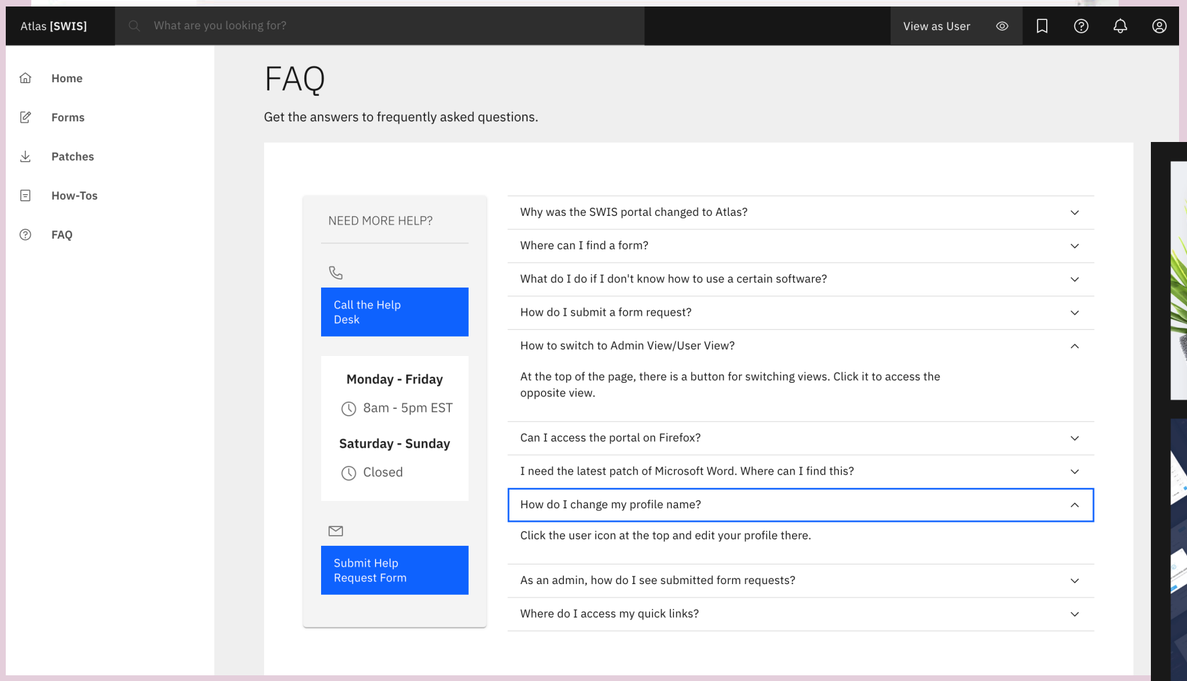
Date: Fall 2021

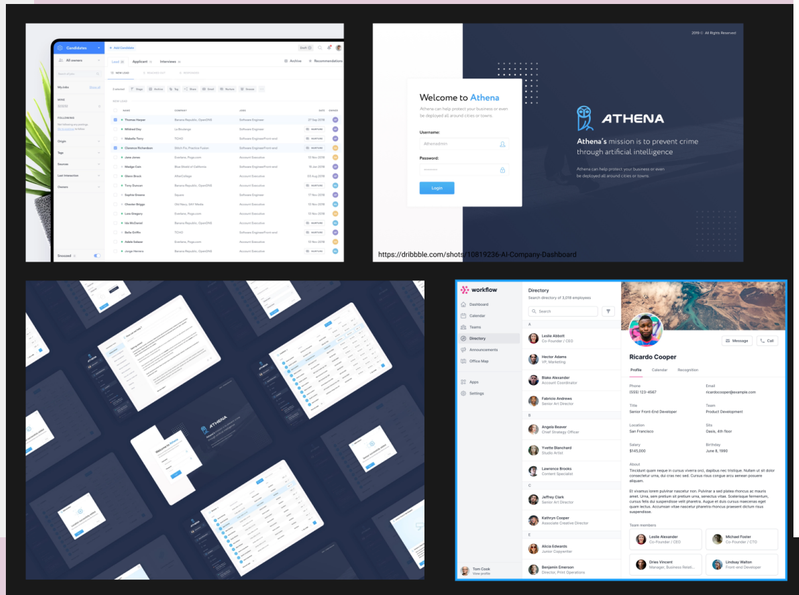
Class: Integrated Product and Process Design (IPPD)

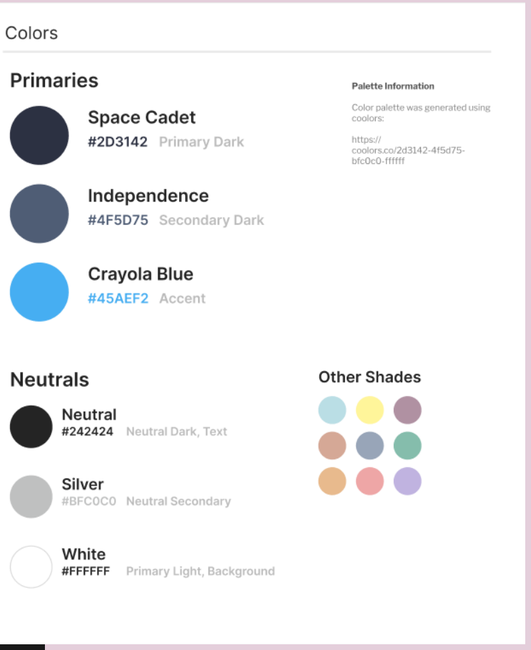
Description: As part of the UF IPPD program, my group is working with Raytheon Technologies to develop a modern, secure, and intuitive web portal using React.js and Springboot. Following the engineering processes to design, build, prototype, and test system designs under the guidance of faculty coaches and industrial liaison engineers, we coded a prototype of the web portal.

My Roles: I had the responsibility of coding the dashboard and FAQ pages as pictured as well as choosing colors and images for the design guidelines and moodboard.



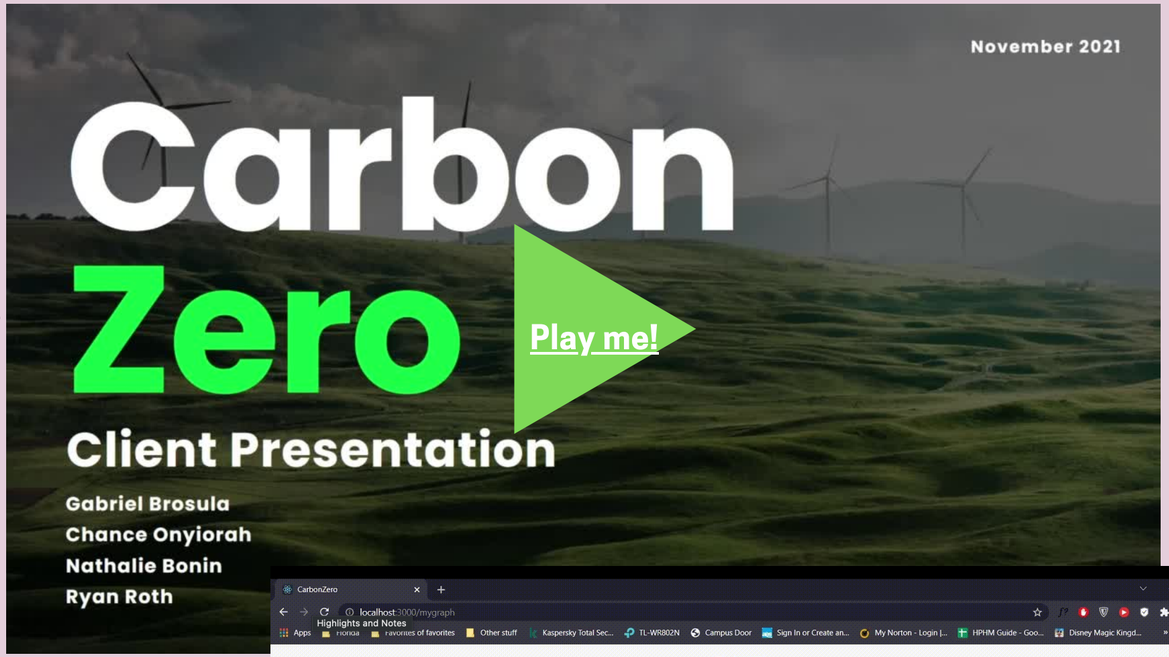


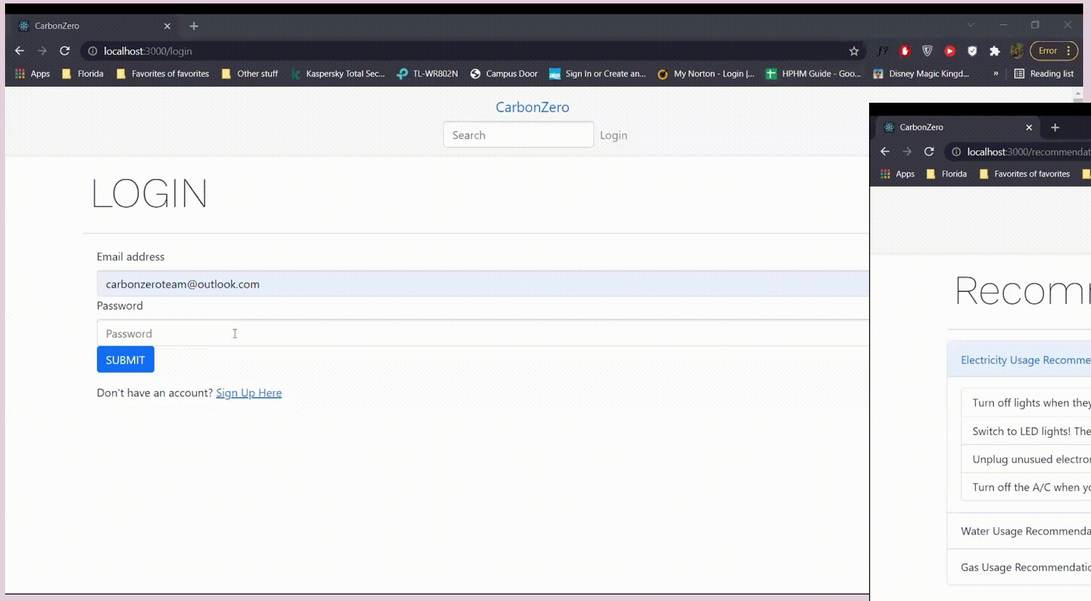


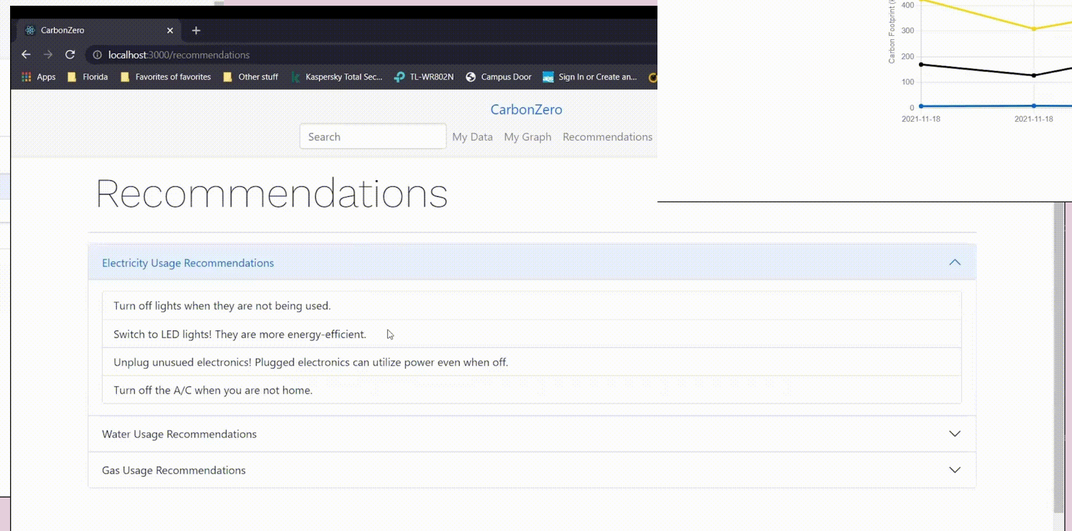


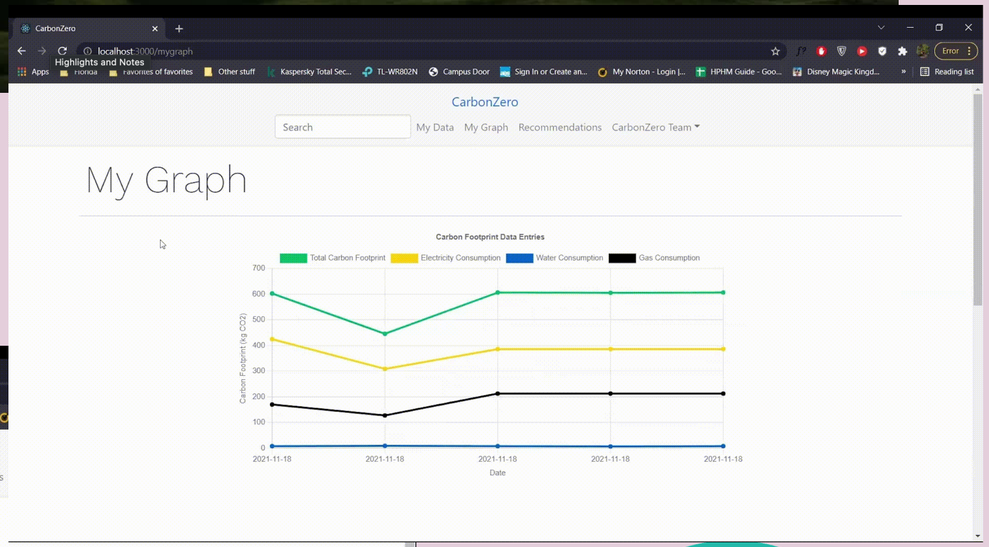
CARBONZERO

Date: Fall 2021
Class: Software Engineering
Description: CarbonZero is a web application that allows users to track their carbon footprint and receive tips on how to conserve energy. For this group project, we utilized React.js, Node.js, Express.js, and MongoDB to create a user system with associated carbon footprint user data. We also used IBM AI Watson service to create personalized recommendations for each user.
My Roles: Personally, I worked on setting up the Node and Express environment, the React app basic user interface with a landing page, both frontend and backend of the user system including login, signup, and logout functionality, setting up MongoDB database for user information and Cloudant database for AI component.







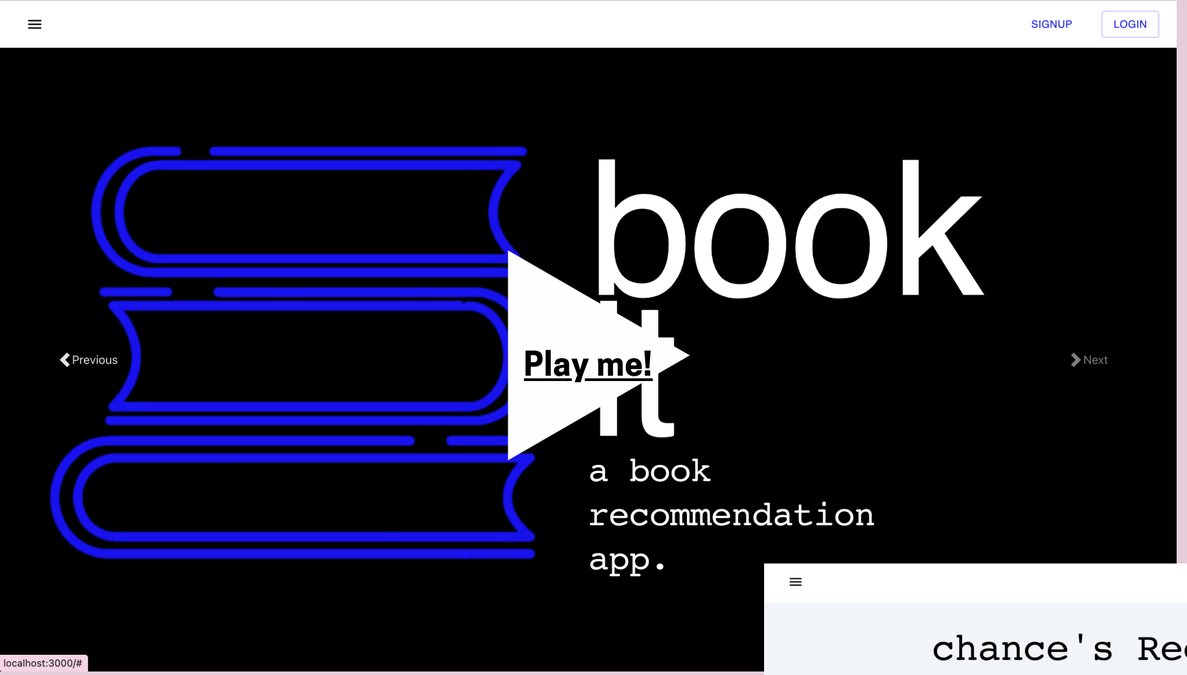


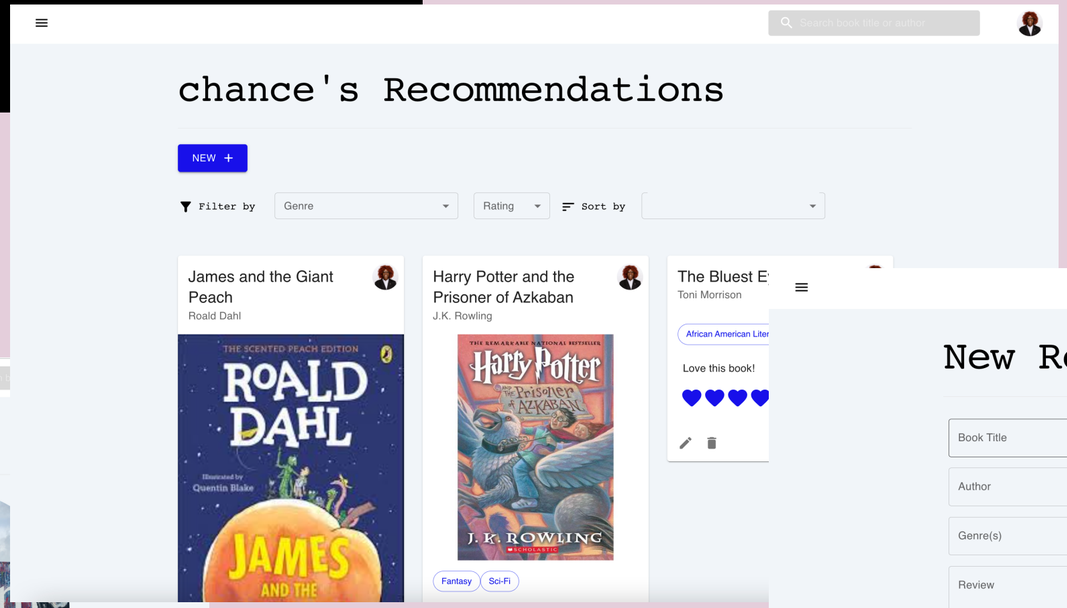
BOOKIT

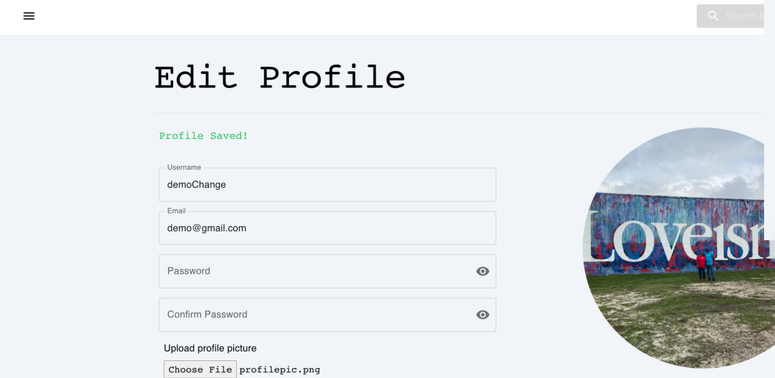
Date: August 2020 - Present

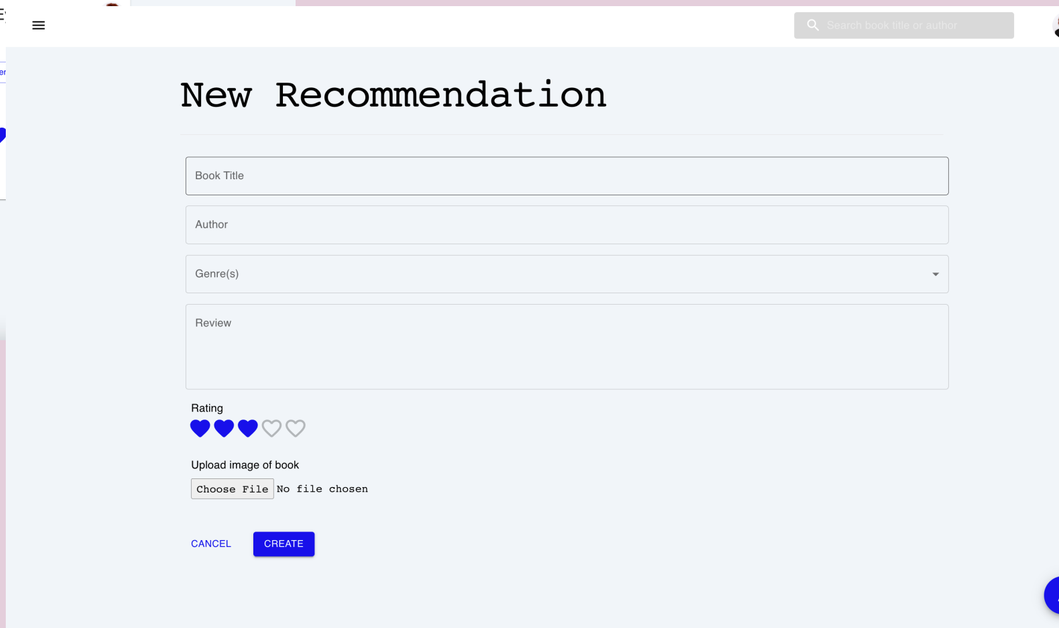
Independent Project

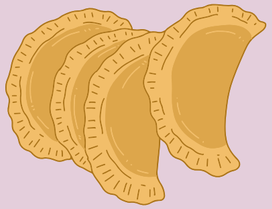
Description: A book recommendation web application that allows the user to create and view book recommendations and add books to their reading lists utilizing React.js, Node.js, Express.js, MongoDB, MaterialUI, and Tailwind CSS to create a user system with associated recommendation user data.











TEACH ME

Date: Fall 2021
Class: Divergent Thinking
Description: A partner assignment was given to teach each other the process of doing something that we each do regularly. My partner and I decided to blend our two cultures together as she taught me how to make an Indian healing staple, turmeric milk, while I taught her how to make a vegetarian take on traditional Hispanic empanadas. We also created a video presentation that paints our experience with the viewers as restaurant patrons, complete with a menu and a look into the kitchen to see how the menu items are made.
My Roles: I was responsible for editing the last half of the video where I showed how my partner taught me how to make turmeric milk.