John Contella

✉ jpconte@uab.edu 📞 404-884-1940

🌐 https://contellajp.github.io/react-portfolio/
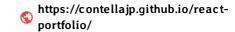
EDUCATION

University of Alabama at Birmingham
BA Computer Science, Minor Economics

Aug 2020 - April 2023

Algorithms & Data Structures, Object-Oriented Programming, Cloud Security, Mobile Application Development, Probability & Statistics in CS

PROJECTS

Pantree
Android Application - 3 Person group

- Developed using Kotlin, XML, SQL.
- Take an input of items inside of users pantry, use a recipe API to provide a list of recipes that contain a certain number of the items that were input. When recipe is chosen the missing ingredients are listed in a checklist format with the option to open a webView containing the source URL for the selected recipe.
- Developed the backend relationship between the API and the local database (Room Database).
- Developed the front end for the input screen.

🔗 https://github.com/ContellaJP/Pantree

Agricultural Drone UI
Java Application - 6 Person Group

- Developed using Java, JavaFX, SDK provided by drone producer.
- Simulated irrigation, property scouting, and the ability to search for lost cattle.
- Built a clean and simple UI using JavaFX for non-technical users.
- Developed a database schema that caters to what is needed within the project.

🔗 https://github.com/ContellaJP/DroneApplication

Home Monitoring Site
Full Stack Web App - 5 Person group

- Backend was built with Python specifically Flask and SQLAlchemy. For the database, we used PostgreSQL and hosted it both locally and remotely.
- Focused heavily on event handling and implementing the calculations drawn from the database using SQLalchemy to fulfill the requirements set by the product owner.
- Jointly worked on the database schema with another one of the team members.

🔗 https://github.com/ContellaJP/homeMonitoring

Technical Skills

- Languages: Java, Kotlin, Python, C#, SQL, Javascript, HTML, XML, C++, CSS
- Frameworks and Libraries: Javafx, Selenium, SQLAlchemy, Flask, Node.js, React
- Tools: Git, AWS (S3, EC2), Gradle