Innovation Portal

Kingston Barnes

People I Worked With

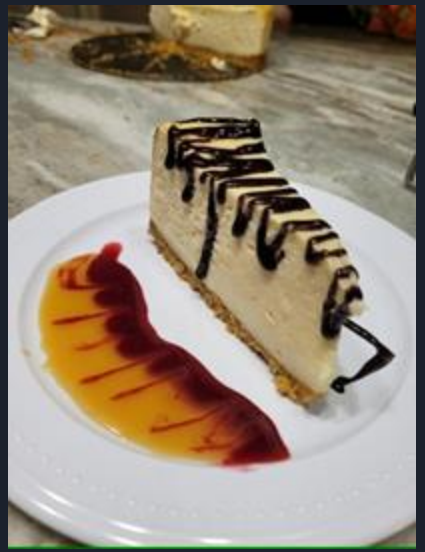
- Mentor:
  - Paul Lockett
- Other interns:
  - Byron Overton
  - Amelia Moore
  - Joshua Brown
  - William Starling



About me

- just graduated from the Alabama School of Math and Science in Mobile, AL
- Attending the University of South Alabama and majoring in computer science
- I enjoy computer science, math, and baking
- Intern at Innovation Portal
- Mentored by Paul Lockett







Project Overview: Main Technologies

1. Python- all coding happened in python
2. DSPy- Python framework for automating the optimization of llms
3. Fast-html- Python framework for easily creating quick websites
4. Browser-use - Python framework for allowing an AI agent to control a browser





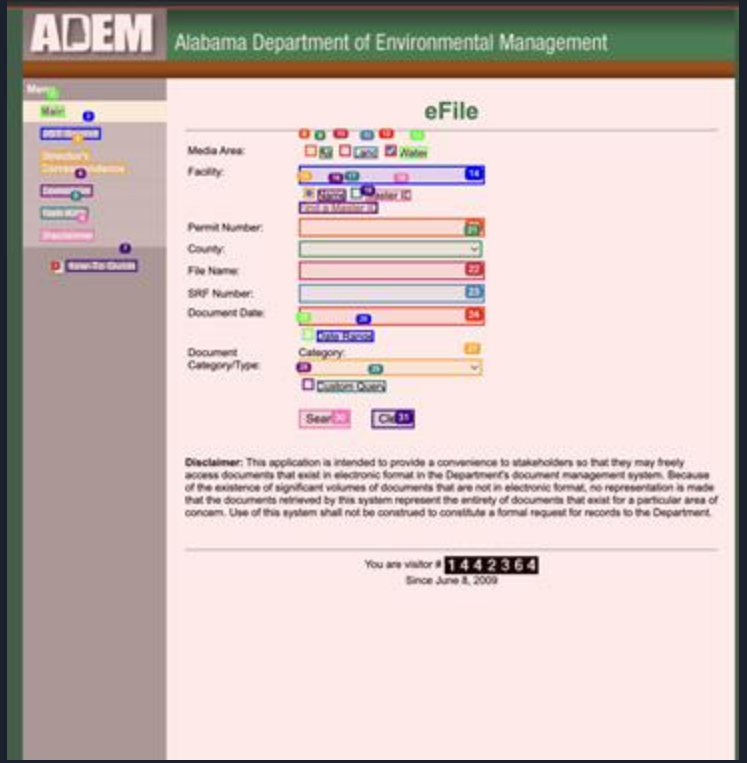
Project Overview: Mobile Baykeepers

- Main project was helping the Mobile Baykeepers
- Needed an automated way to search an outdated government website and get useable spreadsheets
  - Browser-use agent to search and download files from the website
  - DSPy optimized program to extract data from those files into spreadsheet format
  - Data visualization and dashboard



Project Overview: AI agent

- First step in the process
- Take user input -> search the website according to input -> download files fitting the search criteria



Browser Use

What I Learned

- How to use all of the frameworks
- How to develop in a team
- Information about the employment process