The web application ‘Find Your Pet’ allows users to search for adoptable pets around an area by using their zip code as their location. This application was originally created in 2022 with two of my peers at a coding certification class. This was the first app I worked on with other developers, and uses ‘vanilla’ HTML, CSS and JavaScript as its language.

This artifact was included in my portfolio because I wanted to visualize my growth as a developer. The entire application has been built ground up using ‘bleeding-edge’ react framework known as Next.js. I want to showcase by proficiencies with front-end technologies and my ability to follow a design plan using CSS. I also wanted to showcase my attention to security details by hiding API keys and client secrets as environmental variables, as the original app had hardcoded credentials, which is a massive security risk. The enhanced application is fully responsive, as it functions and displays data on a smaller screen just as well as a larger screen.

My planned course outcomes for this app enhancement were:

* + - Design, develop, and deliver professional-quality oral, written, and visual communications that are coherent, technically sound, and appropriately adapted to specific audiences and contexts.
    - Demonstrate an ability to use well-founded and innovative techniques, skills, and tools in computing practices for the purpose of implementing computer solutions that deliver value and accomplish industry-specific goals.

I am pleased to report my enhancements accomplish them both as I have included helpful inline comments that describe every crucial component and function of my app. My decision to use Next.js demonstrates my ability to use innovative tools and skills to accomplish industry-specific goals. I would also like to say that my use of environmental variables to incorporate API security also achieves the following outcome:

* Develop a security mindset that anticipates adversarial exploits in software architecture and designs to expose potential vulnerabilities, mitigate design flaws, and ensure privacy and enhanced security of data and resources.

I enjoyed the process of enhancing my very first application, it made me see how my decision making and skillset as a developer has grown and I appreciate the vast amount of growth and learning that I have yet to attain. A great thing I learnt was the value of clean modular code. In the original artifact, all CSS was done inline and all login as in a single script file. This made the code almost impossible to read line by line, but in the enhanced version, all components are broken down into files, and the styling is kept separate in a globally dedicated file. This allows for scalability, readability and maintenance. Finally, the challenge I faced was making the environmental variables work as most of my experience in using environmental variables is on the server side, and the process of using them on the client side was a bit different.

Old App Repo: <https://github.com/MKHLink/Find_Your_Pet>

Old App Deployment: <https://mkhlink.github.io/Find_Your_Pet/>

Enhanced App Repo: <https://github.com/MKHLink/Find_your_pet-2.0>

Enhanced App Deployment: <https://find-your-pet-2-0.vercel.app/>

To run the enhanced app locally, please ensure that node.js is installed. Download all dependencies using ‘npm i’ and create a .env.local file on the root directory. Finally, use the env variables in the newly created file and use ‘npm run dev’ to run the app at localhost:3000.  
  
Env variable:

NEXT\_PUBLIC\_CLIENT\_ID=gSzfuztB3Wmmxgv5n0Q6rR4ty7EtEc14eez9SiOYgZHameqeHU

NEXT\_PUBLIC\_CLIENT\_SECRET=W6jfFnFl2Jxqo2bUSnC6s90C1PzCF4Fv6K8SyHGp