

## Self Assessment

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My individual contribution to the project was being one of the two main front end developers. I did a lot of the React work and setup since I was the only team member with prior React experience. I started out the Spring semester working on creating the initial rough draft or initial layout of the application. Later on in the semester I mostly worked on the implementation of the modules in our application, specifically the animations that each module went through. I applied a lot of the skills from my initial assessment this semester. I had experience with React, javascript, HTML/CSS, and Git/ Github before working on this project so I used all of those skills and previous experiences to help me when making this project. I have definitely noticed that I have built upon these skills as well because I am able to do React/ HTML work a lot faster and with less thought than I was at the beginning of the semester. It has become a lot more natural as time has gone on. I also learned a lot of new CSS since I have never made an application of this extent by scratch before so I learned and used a lot of new HTML/ CSS concepts.

Specifically what I did was make the UI for the application. I helped a little with the setup and layout and style of the application, but my main contributions were implementing the learning modules. I was the main developer on 2 / 3 of the modules. Both of them animated the what is going on under the hood of different cyber security concepts. So we had a c code box, stack, register, and an assembly code box or a terminal that the user could click through and elements in each of them would update, either by highlighting a different line, adding text, removing text, adding to the stack, ect. I did this by creating an array of steps that held step objects. The steps array stored the state of the animation per step (array item) by setting the highlighted items, hidden text, text of different colors, ect. Then I made functions that would update the state of and iterate through the steps array. Depending on the button they used the current step would be set to the next step, previous step, last step or first step. This allows the user to be able to easily interact with and view complex cyber security concepts in a simple, intuitive manner. I learned a lot about react and how front end applications work since at my co-ops I had worked with such large applications, I never really understood the entire layout and interaction between different parts of the project infrastructure. I also built competencies in Javascript since I had not had a lot of experience with plain javascript in the past since I did a lot of typescript before. I think overall I was successful in helping to make our UI functional and interactive. I also was successful in learning new concepts and skills that I can use in the future. My main obstacles were figuring out how to make an application from scratch because in the past I have always had an entire company's product's code to look at for example on how to set things up and best practices. This time we made our project from scratch which was a lot harder, but helped me learn so much.