These artifacts that I have submitted, I believe fit well in to my portfolio as they demonstrate the elements that the project was looking for, it shows that I have the ability to write code and for the program to read it correctly, if I am honest this is not my strongest talent, but this is something that I have improved in considering using pymongo and mongodb is something that I had never used prior to that class. The databases shows that I have the ability to read the graphs and interpret the data, once I have read the data I can adequately show how and where the company is being successful within their online store, and offer suggestions as to how the company may improve or attempt to gain more customers in purchasing particular products. The Data structures shows that I am able to adequately define the software cycle in a way that makes sense to the reader so that they are able to follow along. It shows how the user is able to log in and go through the cycle of obtaining class and course records through to the success of registering for a class.

The coursework through this computer science class has been very interesting to say the least, it allowed me to go back through some of the work that had been completed some time ago, it has allowed me to see where some of my strengths and weaknesses lie within the computer science field, it also has helped me to understand where I may want to enter in terms of what field in IT I would like to do.

This is the first time that I have done anything with MongoDB and Pymongo, this certainly wasn’t an easy field for me, it took some time for me to understand it, but I feel like I have gotten better but still need to continue working with it to improve some more. I have included in Github a good portion of the work that I have done, this includes Updating, reading information, removing information using the .remove function, and the code that I inputted. Collaborating in a team environment with algorithms is certainly essentially, this allows people to work as a team, and perform a code review on each other’s work, this is an important aspect to the success of the people doing the work, but also it is essential for the company to ensure that all deadlines are met and there are no delays costing the company value time and resources.

Looking at the databases, I feel like I have got a good grasp on graphs and how to read them to ensure that the most vital information is taken to help a company understand how well their sales are doing, where the most sales are coming from and ideas on how it can improve, whether it is in a brick and mortar store or online. Communicating this information to the stakeholders of a company is going to allow them to evaluate how well their company is operating, where their downfalls are, and whether or not they need to revaluate what they are selling and where, for instance if a store is doing well in a certain product that only 20-30 year olds are buying, then maybe they can add more stock to that business, or try and entice older customers that they may want to buy these items by marketing them in such a way or offering deals.

Doing an SIS communication diagram shows my understanding of how software programs work, by revisiting this work which was done early in 2018 it allowed me to review it and make improvements where I felt it was necessary, and to show how much of my understanding of this particular part of the program has improved. The diagram shows someone logging in to the system and trying to register for a class. The way that I did the SIS diagram allows for the reader to see systematically how the process works, and how it cycles around with the deviation back to the start due to errors or rejection of application.