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Report 1

I have been working at DST Systems in the Research and Development Department for the past two years. I have gotten to work on many different projects and with many different people. Just to let you know, I took a couple weeks off work after I completed my spring semester, so I have only been working full time for this week. Because of this, I will explain the project I was working on before I took a break and the project I started working on this week and will continue working on for the near future.

The project I was working on before my break was the Microfiche/Microfilm project. This is an angular web application to be sold to DST clients when finished. A lot of DST’s clients have tons of old Microfiche sleeves that they would pay to have digitally imaged and stored on a database. This would make it easier for looking up information on old Microfilms because instead of searching through all the physical files of Microfiche, you could quickly search different parameters by using the application or even search for a specific document using the advanced search. I mainly worked on the database portion of the project and I also worked a little on the UI. For the database portion I wrote SQL code to create all the different tables we needed such as: Client, Category, and Images. Then, I designed the enhanced entity–relationship (EER) diagram within MySQL Workbench that determined the relationship between the different tables in the database. I also worked a little on the API portion of the project to connect the database I created to the project. The last task for this project that I worked on was adding a paginator to the page that displays all the images of the scanned documents. The paginator split up the images displayed on the screen by allowing the user to select the number of documents to be displayed on one page and they can switch between the pages using the back and forward arrows below the images.

The project I am now working on is the Pricing Dashboard. There is a team in the Financial Services Group who is responsible for documenting changes in prices of shares of Mutual Funds. The “Pricers” wait for a group called Fund Accounting to determine the prices of Mutual Funds. The job of the Pricers is to make sure every fund that should have a price has a price. Currently, they are using Microsoft Access to query live data and these queries are taking far too long to complete due to the query pulling more than the 2GB limit on Microsoft Access. The R&D team plan on making a faster, better looking dashboard that displays all the missing values. We just started working on this project, so the only thing I have worked on so far is creating the static and API projects within GitLab.

Something I have gotten more experience in and more comfortable with is Git. After working on the Microfiche project I have gotten better at checking in my code and pulling new code frequently and solving conflicts. I also got experience in creating projects within GitLab by creating the Pricing Dashboard static and API projects.