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Field Report – Jonathan Gonzalez

As you know, I am interested in a career involving computers, even if I am a math major. And as you know, it is a common fact of knowledge that there are 3 main options that one can take. The first option that can be chosen is Computer Science. Which is the most theoretical of the three. It is the study of computers and computational systems. Computer scientists deal mostly with software and software systems; this includes their theory, design, development, and application. Think of this path as the more mathematical and logical one.

The next of the big three is Software Engineering. This career option takes on a more hands-on approach. Software engineering is a detailed study of engineering to the design, development, and maintenance of software. Which is different not only from Computer Science, but from Information Systems as well. Information Systems focuses on the branch of engineering that pertains to the use of computers to collect, store, and share and protect information. This path sounds exactly like it is, knowing the ins and outs of information.

Some possible careers that I could pursue following my degree with one of the big three are theory, hardware and programming. A mathematical career would be Theory. Computer science theory is often highly mathematical, concerning itself with questions about the limits of computation. A subsection of theory is algorithm development. And I might work to develop better algorithms for graph coloring. Cryptography is another booming area of the theory section of computer science, with applications from e-commerce to privacy and data security. This work usually involves higher-level mathematics, including number theory.

Another possible career path would be computer hardware. It deals with building circuits and chips. Hardware design lies in the realm of engineering, utilizing the knowledge that I learn in class quite often. Or I could just become a programmer. Most non-theory areas are dependent on good programming languages to get the job done.

However, I have already decided to pursue a minor in computer science. I am pretty locked in to data science as a career. And including computer science as a minor to my repertoire would only help in the future. As I am positive that computers will only become more relevant in the future. As a data science, I will be working with computers all of the time to collect, compile and optimize the data collection that I will need to perform. It will be my bread and butter.

Report Report

The very first thing I did was open up Grammarly. I've adopted an approach to writing due to my frequent writing blocks to just type whatever comes to mind and to edit it later on. Because I am typing without pause, I don't take the time to correct my typos. But Grammarly does. The next thing I did was search up most of the subjects on the internet. I did not know most of the information that I was planning to write about. So I went on a lot of different websites. Even going on the suggested links that you provided us with.

The very next thing that was done, was to completely read the assignment. Watching the video on the five components of writing helped a lot. I followed the pattern, eventually deleting a lot of the information that I inputted into my field report because I evaluated it and didn't think that it would fit. I was comfortable with the final draft that I wrote. It seemed written naturally. And I felt that I wrote what I felt, while at the same time wrote something that had substance. I eventually thought that I was almost done. Switching over to a different website to count the number of words on the field report. There were only about 390 words. So I went over the entire report and rewrote it. And at the end of the whole process, even flipping the 3rd and 4th paragraph, I felt that It was done.