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Computer Science Disciplines

The body of knowledge of computers and how they operate has gone a great distance over time they been around. This extensive tool has been used to process many concerning problems, store valuable data, and united the globe to be more connected than ever. However due to its colossal nature, there are many expanding job markets to ensure that services are free from any flaws. There are many disciplines in this field such as computer science, software engineering, or information technology that must be considered be deciding a career.

For instance, the concept of “Computer Science” is overall study of computation and its efficiency. Fundamentally, this area may include algorithms for networks, databases, and operating systems. It can be used for both theoretical and practical applications. The career “Computer and Information Research Scientist” will fall under this category for due to its innovation goal of creating new forms of technology.

On the contrary, the discipline of a software engineer is to focus on the quality of a program and to design new applications or extensions. In general, their task is to develop software that is user-friendly and will not encounter any major errors or exploitations. Businesses that need to develop web-pages, mobile applications, or use embedded systems will often need a software engineer to maintain it. With this in mind, I have become fond of idea to obtain a career in the network or cyber security department. Their role is to detect and prevent any malicious infiltration that would compromise one’s

information. As computers and programs evolve over time, they will always be new forms of cyber threats.

Other branch in this field to consider is information technology. This ambiguous concept is essentially the study of manipulating data. Their concerns are to store, retrieve, transfer and analyze data by using numerous methods. Normally, they must have vast knowledge both computer hardware and software. Database administrator are often within this discipline due to their role of managing information using server.