Nathalie Crespo

COP 1500

March 21, 2017

Fields Report

Computer science is the study of engineering, theory, and experimentation that lay the foundation for the use of computers. It requires thinking both abstractly and concretely, thus also making it a science of problem solving. Computer science may be the study and understanding of computers, very generally, but software engineering use those studies and principles of computer science and apply them to design and test software and systems that allow computers to do what they do. Software engineering often generally has to do with the development of all sorts of software and maintaining them by programming a computer. Information technology, IT, on the other hand is the use of any physical devices to handle all sorts of electronic data. IT creates, processes, stores, and secures electronic information and it is typically more in context for businesses rather than in a personal context.

There are many different fields within computer science that are used in multiple different careers such as business. The three fields of computer science I will be talking about are computer network architects, computer programmers, and web developers. Computer network architects build data communication networks as well as maintain them. The networks can range from a simple office connection to a more complex one for a multinational corporation. Computer programmers write and test codes for apps and software programs to function. Computer programmers today can be used in almost any field, such as social media. Computer programmers would be the ones to develop the codes and maintain those social media apps, as well as any other program. Programmers must keep testing codes and making sure the computer can understand it until there are no errors, adjusting and updating them as well to keep things going smooth. Web developers design and create websites. They become in charge of the entire site from the technical aspects to the contents on the site. Web developers are needed for any organization that wants to have a website such as a charity organization or the government.

I personally am interested in being a software security analyst or something like that. I like the thought of being able to keep a whole organization’s information secure with my knowledge of software and knowing which programs to use. I think it would be even more satisfying to create the programs that can do that but I mainly want to stay ahead of any cyberattacks. I think the pay would be a nice bonus but I am genuinely interested in this field.