

November 10, 2017

Comp Sci. Fields Report

The understanding and use of computer science is the barebones of almost every computer and software related job. Computer science, also known as the study of algorithms, ranges from simple things like converting binary to decimal, to more complex things such as writing a website using html, css, and JavaScript. Software engineering takes what you learned in computer science and basically implements it on a grander scale. For example, in computer science you learn about four stages of computer problem solving which are: writing the specification needed to know what to solve, develop an algorithm to help the computer solve the problem with the specifications listed, implement the algorithm into the computer so the computer knows what it needs to solve and how to solve it, and finally make sure that the computer can maintain the program running the whole thing. When it comes to software engineering, you only need to add two more layers to the previous pattern, which are: the requirements needed to run the software, and the specifications that the product already has installed to help out with other needs. Information technology is multiple algorithms that help those in all software and computer science fields keep track of all the information they have acquired. For example, one common use of information technology and systems are spreadsheets, which are programs that allow data to be organized and analyzed using grids of cells.

Three fields of computer science include computer programmers, software developers, and web developers. Computer programmers are the people behind the scenes that make sure every little thing you take for granted that your computer does for you works properly. They utilize basically everything that is taught in the computer science classes to make sure that their

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employer's customers are happy with the product that they bought. Software developers are the ones who develop every line of code that the computer programmers rewrite to allow the computer to run them. They also utilize everything that is taught in computer science classes to make sure their programs run as smoothly as possible. Both of the job classes I have spoken about require at least a bachelor's degree, 4 years of required classes, to get. The next one, web developers, however only need to have an associate's degree, 2 years in the required classes, to earn. Web developers are responsible for designing and creating websites that are utilized by almost every industry in existence. They also use everything taught in computer science classes to achieve their jobs goal.

The field of computer science I would like to pursue is software developing. The reasoning behind this is because even as a little boy I always had a very active imagination and could easily create scenarios in my head, which was why I took to video games. Pursuing this career would allow me to fulfill my dream of becoming a game designer by using both my creative imagination and everything I have learned in computer science.