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Intro. Computer Science

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### Fields Report

Computer science is the solely the study of computing systems, such as software and software systems to include theory, development, and application. Information technology or (IT) is a method of storing, manipulating, sending or retrieving data in support of a business; personnel will manage networks, servers and databases. Finally software engineering deals with principles of engineering in order to meet customer requirements. Software engineering personnel will use methods of design, development, testing and evaluation of software that will control applications or devices.

Three separate fields that utilize computer science are Computer Network Architects, Computer Programmers, and Software Developers. Computer Network Architects will set up and manage communication networks for businesses such as local and wide area networks. They will utilize their knowledge of computer systems to control how servers and computers will be able to communicate to incorporate seamless communication. Computer Programmers use different versions of computer language to incorporate instructions for applications and programs made by software developers and engineers. By using their knowledge of computer language they can alter instructions from words to binary instructions that the computer will understand. Finally software engineers/developers are the creative minds behind software programs and applications. They will take needs from customers and use knowledge of computer systems to incorporate those needs into practical methods that computers can understand. They will create flowcharts, models, and diagrams to design, test, and develop software that will allow software and hardware to work together to fix a problem. These personnel must understand the inner workings of computers in order to understand how to incorporate instructions.

The field of Computer Science I am most interested in is Software Engineering. I am intrigued by human's ability to create new technology in response to a problem. I want to develop the methods of ingenuity in order to build and resolve reoccurring issues in the world.