

Joseph Cisar

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Professor VanSelow

Intro into Computer Science

Fields Report

In the world of computers, there is confusion amongst distinguishing fields. A few of these fields are: computer science, software engineering, and information technology.

Computer science is the questioning of “how” and “why” computer programs work and the implementations of algorithms in operation systems and design. Information technology is the understanding of what kind of network, design, and structure large corporations and organizations can use to fit their needs. Information technology also involves the maintenance of networks and software for the transportation and processing of information. Software engineering is the testing, design, and development of software that is used in computer programs and applications.

Computer science can be broken down into small fields within itself. In these three upcoming fields, computer science is applied within them. The first field/branch of computer science is software engineering. In software engineering, computer systems software and application software is developed using multiple programming languages and design elements. Computer science is applied with software engineering through the “how” of applying algorithms and programs to create new software. Another field within computer science is computer systems. In computer systems, computer architecture, performance, and the distribution of data through networks is created and analyzed. This allows companies to see if

their programming logic and networks are able to function in the proper manner. Computer science is applied in computer systems by analyzing design and understanding the functionality of databases and networks. The final example of a field within computer science is computer applications. Computer applications has much to do with design, graphics, and visuals from data that has been entered into a system to produce a certain image and or interactions with users. Computer science is applied to computer applications by creating algorithms and when used, can function by entering data to produce a visual.

I am most interested in the software engineering field of computer science. Developing types of software and applications has been what I've been interested in since freshmen year of high school. Being able to create types of programs that can be used with single or multiple users at a time, like video games or mobile apps, would be such a satisfying accomplishment while having fun creating it too. I became interested in this because, since I can remember, I always had a love for video games from early home consoles to handheld devices to computers and now even mobile devices. As I grew older I wanted to have a job that I loved that involved what I love. With how far technology has come and for what will come, there are endless possibilities with websites, games, and applications that could be developed, and I want to achieve those endless possibilities.