

## Fields Report

Computer science is a broad field, that many aspiring programmers work to have a successful career in over time. Some want to become a computer scientist, whereas others yearn for software engineering. However, some may feel that the two terms are interchangeable, when they are not. Software engineering deals with the development and maintaining of software such as applications, video games, websites, and the like. Furthermore, it also places an emphasis on the security of applications and the like, as well as focuses on the entire process of making a work of software. In comparison, computer science is not as focused on developing software than software engineering, as it places more of an emphasis on computers, on both the hardware and software level. Therefore, a good chunk of computer science is dedicated towards understanding and designing both applications, and the computers itself, and is a broader field than software engineering for that reason. Lastly, information technology deals with utilizing computers to give support and administration to computers as a whole, and is a common field within businesses.

Three notable fields of computer science that exist are software developers, web developers, and computer programmers. To be an entry level software developer, one will likely need a bachelor's degree, and the field is concerned with the actual developmental process of the programs and applications that computers are able to run. Whether that needs developing an application for a device to run, or the operating software for the device itself, software developers can work on both processes. Web developers, on the other hand, will likely need an associate's degree for an entry level position. People with this occupation will essentially be responsible for the maintenance, design, and such for a website. This can range from the website interface, to the speed and performance that the website runs at. For these reasons, web

development can be a somewhat broad process, but still an important one to consider. Finally, to be a computer programmer, one will likely need a bachelor's degree for an entry level position. People with this occupation will be able to develop and test the code that applications and software requires in order to be able to successfully operate. Computer programmers work hand in hand with software developers and engineers to ensure that the code that is written by software developers can successfully function on a certain device and help with the designs for an application so that it can successfully be operated on a computer and the such.

The career I am specifically looking forward into entering is software development, with a bit of web development on the side. Specifically, I would love to assist with the development with a large name website, on both the development for the website itself, and also the development for any companion applications that the website might use. An example of this is YouTube, which is frequently used as both a website on people's computers, and a popular mobile application on their phones. To work hand in hand with the development of both to ensure that any notable features implemented in the website app can successfully carry over into the mobile app as well, sounds like something I would love to try to lend my hand to assist with. I also would love to be able to design websites and mobile apps from the ground up as well for a similar reason, not just assist with the development of such, as I feel it would be interesting to accomplish, and I would love to develop software that can improve the everyday life of a person.

## Report Report

When writing my report, I tried my best to keep the three FCGUScholars skills in mind as much as possible to make it as effectively written as possible. What I did for the first skill, writing, was to first make an outline of my paper, which was done so that I could be able to figure out what exactly I wanted to include in my report, and how I would organize the structure of my report as well. The second skill, critical thinking, was mostly utilized when considering what specific computer science career I wanted to get into in the future, as while I had a concrete idea of what I wanted to do before, I needed to be able to consider exactly why I wanted to go into software development specifically. By using the “5 whys” technique, I was able to figure out a clear reason as to why I wanted to get into software development, which then helped a lot in being able to write an effective report about the subject. Finally, for the third skill, information literacy, I tried my best to be able to be well-researched on the three computer science fields and careers that I discussed in my report before actually writing about them. I tried to identify my material well and putting info about them in my outline before looking up any needed information, then looked up specific, helpful examples by finding what information I specifically needed, evaluated the information by deciding which parts were needed for my report, and then applied it by then writing about the necessary info only.