Fields Report

My name is Benjamin Kotwall, and I am currently enrolled in the Software Engineering program at Florida Gulf Coast University. I have always thought to my self that if I could go back to school for something, I would learn about computers. I also used to think that I should have done something that involves computers when I was younger. Now, I am getting the opportunity to pursue my dreams.

Computers are composed of three main fields: computer science, software engineering, and information technology. Computer science is the branch of science and technology that is concerned with information processing by means of computers (*ISO/IEC 2382:2015, Information technology -- Vocabulary*). Software engineering is the systematic application of scientific and technological knowledge, methods, and experience to the design, implementation, testing, and documentation of software (*ISO/IEC 2382:2015, Information technology -- Vocabulary*) (*ISO/IEC/IEEE 24748-5 Systems and software engineering--Life cycle management--Part 5: Software development planning, 3.16*). Information technology is the resources required to acquire, process, store and disseminate information (*ISO/IEC/IEEE 24765c:2014*).

Three fields which make up computer science are: software development, systems analysis, and security. Software developers develop applications which allow people to complete specific tasks on a computer or other devices. They also develop the systems that operate the devices or that run networks. Computer systems analysts look at an organization's current computer systems and operations and come up with solutions to help the organization run more efficiently and productively. They combine business and information technology together by understanding the requirements needed of both.   Information security analysts implement security measures to ensure protection of an organization's computer networks and systems. Their responsibilities are continually increasing as the number of cyberattacks continues to grow.

The computer science field that I am most interested in is security. Security is extremely important because it protects organizations and keeps information secure. This field of computer science has a very high projected growth rate, and there will be a high demand for security measures in the future. Why am I interested in the security field? Well, I have always been fascinated with the military, and the government. I think that this line of work would be so interesting. I really want to enjoy the job that I am working at. I also want to earn enough money to support myself, and my family. I also would like to really contribute to the security field and drive it forward into the future.

Report Report

In the process of writing this report, I used the three FGCU Scholars skills to compose this report. In the writing skill, I first made an outline before I began writing. I then began writing, using skills and knowledge from previous English classes. When I finished writing, I read my report out loud to make sure there were no spelling or grammar errors. In the critical thinking skill, I analyzed and evaluated each aspect of this report. I ensured this report had a purpose and goal, I presented information and data, I defined concepts, I presented my point of

view, and I made sure this report was clear and accurate. I also used the five why's to explain why I am interested in the security field. In the information literacy skill, I identified and found the information that I needed to write this report. I then evaluated and applied the information I found to achieve my objective. Lastly, I acknowledged the sources that I used by citing references.

References

Hoffman, Michael. "A Guide to Computer Science careers."
https://www.computerscienceonline.org/careers/

United States Department of Labor. Bureau of Labor Statistics. "Computer and Information Technology Occupations." https://www.bls.gov/ooh/computer-and-information-technology/home.htm