

Mom and Pops,

I've been learning a lot about computer science this semester. To freshen you up on what that is, computer science is a field of study that focusses on creating new usages for computers and working on applications that could benefit us in our daily lives. Everything from our smart T.V. to our iPhones are the result of advances in computer science. Lately in class, we have been writing a lot of our own computer code. Code is the way software engineers communicate with computers and get them to perform a desired task. After college, I plan to become a software engineer. In that profession, I hope to be writing my own programs and editing existing code for clients to improve their security systems. Security is the sub section of computer science that hope to focus on when I am an experienced coder. Computer security is centered around protecting private information by creating secure ways for people to store and send information. This is similar to Information technology which is solely focused on the sending, retrieving, and storing of information, but I will be more attentive to the aspects that keep that information safe from wrong-doers. Before college, I wanted to be a game designer which is more of a computer graphics-oriented field. Computer Graphics is the use of computer programs to edit and create virtual images. This field is responsible for virtual reality goggles, a device that lets you experience a virtual setting in 1st person, and the convincing special effects we now see in movies. I love that type of entertaining technology, but nowadays I want to focus on keeping myself safe in this computerized world that is crawling with digital wrong-doers. Hacking is on the rise and these malicious coders are getting inventive with their ways to steal information. Nowadays, people have been creating programs that exhibit intelligent behavior and can appear as humans. This is known as Artificial Intelligence (A.I.) and is actually another branch of computer science. With this technology hackers are capable of writing programs that can trick people into giving away private information like bank accounts and social security numbers. Threats like these makes staying vigilant of malware more important than ever. A.I. is being used for more than just stealing data. It is also used to create digital personal assistants like Siri and the Amazon Alexa that can help keep people organized and even use the internet to answer any questions the user might have. It's been good talking to you, but I should really get back to my studies.

Sincerely,

-Tyler