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Object Oriented Programming

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Dilemmas In My Chosen Field

My chosen field is Cyber Security. Cyber Security is my chosen field because it is what I am majoring in at college and I find it to be an interesting job. Cyber Security is the practice of protecting networks, data, and devices from people who would want to harm them for their own benefit. As I become a professional in my field I will encounter a few ethical dilemmas, and I will need to resolve them immediately, and I will need to follow IEEE and ACM code of ethics if I want to become stronger in my field.

After doing research online, I have come to the conclusion that the biggest ethical dilemma is being able to effectively make better decision making, having a good moral compass, and to maintain confidentiality. The main dilemma for me would be that I would need to make better decisions when encountering a problem because "...it is important to always think about how you approach your decision making when you are faced with a problem."(Henry). I personally still suffer from bad decision making, so I will most definitely need to work on decision making so I can get a head start in my future so the chances of encountering this dilemma is low. The second dilemma I will most likely face is that I will need a good moral compass within my field. I need a good moral compass because "Without clear ethical standards and rules, cybersecurity professionals are almost indistinguishable from the black-hat criminals against whom they seek to protect systems and data."(Knowles). This is a big ethical dilemma in the Cyber Security field because many people who were a part of this field have committed

terrible crimes that can lead to the harm of another human being because they were benefiting from it. The third ethical dilemma in my chosen field is the ability to remain confidential. This is important because “IT professionals, in their roles as protectors of a company’s data, see everything. This includes a great deal of sensitive information regarding employees’ personal lives, communications between clients and sales or account personnel, health insurance and medical records, payroll, and much more.”(Maryville University). This is an ethical issue because many people will accidentally or purposely expose a person's personal information, which could cause harm to a person.

The first dilemma involves the idea of being better at decision making and it could be overcome by having a more clear thought of the situation and to think of the different angles involved in order to find the best solution to the decision. I personally feel somewhat prepared for this obstacle but at the same time, I also need to practice making more complete thoughts because I lack that. In order to be prepared I will practice more activities that are more heavily influenced on brain power, so I can challenge myself into making better decisions. The second dilemma involves the possibility of not having a good moral compass. This could be obtained by mentally putting yourself in somebody else's shoes so you can realize how much you could hurt them if you were to harm them digitally. I feel already prepared for this obstacle because I already have a good moral compass and I will always try to do the right thing, but if I ever falter I could see a counselor that could help guide me into the right path. The third dilemma involves the practice of confidentiality and this can be prepared for by writing private information down on paper so there won't be any possible way for it to be leaked to the public. Personally I feel kinda prepared for something like this already because I already do write down information on paper so I can keep track of it because I like to have physical copies. Actions I will take to be

prepared for this issue is that I will get a stack of paper and put it next to me so I will always have something to write on so nobody can lose their personal information online to someone else.

The ACM code of ethics are about “Contributing to society and to human well-being, acknowledging that all people are stakeholders in computing, Respect the work required to produce new ideas, inventions, creative works, and computing artifacts, Know and respect existing rules pertaining to professional work, Accept and provide appropriate professional review, Honor confidentiality.”(Gotterbarn). This code of ethics aligns perfectly with what was said in Timothy 3:16 within the Bible where it says “All Scripture is God-breathed and is useful for teaching, rebuking, correcting and training in righteousness, so that the servant of God may be thoroughly equipped for every good work.”, this quote from timothy supports this code of ethics because both discuss how teaching and training from work can make you a better person or servant of God. The IEEE code of ethics is about “to hold paramount the safety, health, and welfare of the public, to strive to comply with ethical design and sustainable development practices, to protect the privacy of others, and to disclose promptly factors that might endanger the public or the environment, to improve the understanding by individuals and society of the capabilities and societal implications of conventional and emerging technologies, including intelligent systems, and to maintain and improve our technical competence and to undertake technological tasks for others only if qualified by training or experience, or after full disclosure of pertinent limitations”(Advanced Technology for Humanity). The ethics of IEEE compares perfectly with that of what was said in Corinthians 10: 23-24 in the Bible where it says ““Everything is permissible” – but not everything is beneficial. “Everything is permissible” – but not everything is constructive. Nobody should seek his own good, but the good of others.”. They

compare to each other because in the verse it talks about how everybody should seek to help others and this lines up with the IEEE code of ethics because the code believes in the safety of the public.

After doing further research I have come full circle in discovering the obstacles I will face in my field. I will plan accordingly so I will not suffer from these obstacles but instead gain knowledge of how to overcome them. If I can adopt the IEEE and ACM code of ethics into my field I will be able to become a better decision maker when it comes to hard choices. Also it will help me grow more as a person.

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