Final Personwork - Looking Ahead

Software Engineering is a concentration that is not offered, but I find it most interesting to me as a career path. Software Engineering involves using engineering principles and programming languages to produce software products, build games, and run network control systems. This concentration seems very exciting because I enjoy creating code and solving problems. Software Engineering also involves learning about more advanced techniques in software development. I feel that I am very eager to learn how to code more efficiently and find easier ways to make software.

A job that appeals to me is a Software Engineer. I definitely feel like my interests align with the responsibilities of a Software Engineer, like working to create business applications. There are several projects I am interested in doing, such as creating a video game, website, and phone app. I can create a video game that can appeal to college students to help them feel calm and less stressed. I could also create an official website for the Philippino American Youth Association of Delaware (PAYAD), which is an organization that I am involved in. This website could help to display information about PAYAD, such as who we are and what we do. The website can also display upcoming events for PAYAD, important links, and photos and videos of PAYAD. Furthermore, I could also create a fitness phone app for UD students, which would allow them to manage the food they eat at UD and the types of exercises they can do at UD.

Cybersecurity is another concentration I find interesting for my career path. Cybersecurity entails working to prevent and stop cyber vulnerabilities. This fascinates me because I want to learn more about the protocols and frameworks for responding to a security breach. I am also very interested in learning about cryptography and other cybersecurity concepts. A job that appeals to me is a Security Analyst, who works to research data security and prevent breaches. As a Security Analyst, I think that I would be very engaged in protecting the security and availability of computer systems and preventing threats. Some projects that relate to cybersecurity that appeal to me are doing CTF (capture the flag) challenges with cybersecurity. Through CTFs I can learn more about cryptography, steganography, web, pwn, and many other cybersecurity concepts. Another project that appeals to me is executing a network analysis through Wireshark. This will allow me to learn about network traffic, detection of attacks, and how a cyber attack can be prevented.