

## Reflection

In the past weeks, I have been overwhelmed doing Codio exercises, mostly Python and research about computers and their applicability in different fields. After studying Computing as a Profession, Introduction to Computer, Emerging Trends in Computer Science, Computing Infrastructure and Network, Software as a Tool, and System Software – Operating Systems, I summarised several types of research and documented them here in this ePortfolio.

Reflecting on system software, explicitly operating systems, I am reminded of these programs' critical roles in computing. Without operating systems, computers would not be able to function as they do today, and many of the technological advancements that we take for granted would not be possible.

One of an operating system's most important functions is managing a computer's resources, such as memory, processing power, and storage. Operating systems allow multiple programs to run simultaneously, allocate resources to different applications, and ensure that the computer runs as efficiently as possible. This functionality has enabled us to do more with our computers, making them indispensable tools in both personal and professional settings.

Another crucial aspect of operating systems is their user interface. Graphical user interfaces (GUIs) have made it easier for people to interact with computers, eliminating the need to use command lines or code to perform essential functions. GUIs have made computers more accessible to a broader range of people, allowing them to use computers to their full potential.

Furthermore, operating systems are constantly evolving to meet the needs of users. New features and security updates are rolled out regularly, making our computers

faster, more reliable, and more secure. However, keeping our operating systems up to date is essential to ensure our computers remain secure and protected from the latest threats.

In conclusion, operating systems are an essential part of modern computing. They enable us to perform complex tasks, manage hardware resources efficiently, and provide a user-friendly interface for interacting with our computers. As we continue to rely more and more on technology, operating systems will continue to play a vital role in our daily lives.