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INFO 101

Milestone 1

In this paper, it is intended to critically appraise the evolution of technology, if we think about the gadgets that we are using every day, it has created amazing tools and resources putting at our fingertips. Now let’s think about the time when these gadgets did not existed. If we think about 30’s or 40’s over that time no one knew about these technologies and there were some inventions, but they were not known to most of the people. The world first program-controlled computer Z1 was created in Germany in 1935 – 1938 by Konrad Zuse, but it was not known by everyone in fact most of our thinking is the technology innovations started in United States. This paper will be stating interesting facts about the technology evolution and also why it is so important in our lives now a days. In this paper we will be discussing about how the IT industry evolved from the time when there were no known computers to the time where we can get all of the data in a small gadgets like smartphones and smartwatches.

1. Introduction to computing and Security Technology: we have a lot of software’s and gadgets that is being used for computing and security which we weren’t had in the past one of the main reason for this could be that the banking and shopping’s they are done online which needs more security software’s.
2. The Internet and the Web: over the past decades the internet and web and evolved a lot, in the past internet was not even available to everyone except army, and web browser or search engine like google were created to handle the enormous number of data available on online.
3. Components of Computing Devices: in the past there weren’t any digital computers, people who were using computers they were analog even the first computer invented was calculator which was a big invention in the past.
4. Servers, Clients, Virtual Machines, and Other Devices: client and servers were used to use mainframes and connect to dumb terminals until when the personal computers started and replaced terminals. Now a days the client and server are used to form a network that connects multiple users. As we know that virtual machines can be used to act as hypervisor and runs another operating system in you actual computer, it is also called a guest host which emulate different OS systems and hardware platforms.
5. Databases and Data Management: database management is often used for storing and organizing computer data. In the early time there weren’t any software’s and tools to use for data management. In early years punch cards were used managing data it was fast way to enter data and retrieve it.
6. Cyber Security and Cyber Warfare: in the past there wasn’t that much use of cyber security because the technology was not that advance. Even the cybersecurity began at the time when there weren’t any malicious software’s. the threats to computers at that time were known and clear. The first program of self-replicating worm was made at that time by Ray Tomlinson. Cyber warfare is defined as a technology to damage electronic and physical assets of a state or organization by using viruses, worms, and also ransomware.
7. Identity Theft and Individual Cyber Security: since the technology has evolved the risk of Identity theft has also been increased with it. Most common identity thefts could be achieved by the internet, hacking, and phishing. Now a days the identity theft has become easy for criminals because of the use of technology.
8. Linux and Open Source: when we talk about open source technology the first word that comes to our mind is Linux. Linux is an operating system and since it is open source so anyone can use, copy, study, and change the software in any way. Linux is another version of UNIX this was developed in the mid-1970s, and was original developed as a multitasking system for minicomputers and mainframes.
9. Command Line Interface: before having the command line it was hard to save files to disk and have multiple running applications with multiple users. The idea of command line was evolved from UNIX in 1969 but was also influenced by a program RUNCOM. The earliest command-line systems combine teletypes with computers, which were originally invented for automatic telegraph.
10. Computing Technology Management and Administration: as the technology has evolved so as the management of computing technology and administration. Computing technology management usually focus on system’s hardware, software, database, and networks.

This paper chapters will be about these ten topics and how it has evolved to this modern technological world.