**IMPORTANCE OF GITHUB ON CYBERSECURITY**

**GitHub is a platform for developers to build, scale, and deliver secure software.**

* **LEARNING AND TRAINING RESOURCES**: GitHub is a proven avenue for learning and training of personnels, students and even professionals in learning new skills related to cyber security and the application of these skills. This may include guides and tutorials and even websites
* **SECURITY RESEARCH:** GitHub was the first to implement practical use of the research insights by deploying three security interventions in stages. On May 16, 2017, the platform introduced security alerts for vulnerable dependencies. Two years later, on May 23, 2019, GitHub announced an additional intervention that provides automated updates for vulnerable dependencies. GitHub’s latest security intervention, which scans code to detect a wide range of dangerous Common Weakness Enumeration (CWE) vulnerabilities.
* **SECURITY ALERTS & UPDATES**: This intervention scanned the repository for dependencies that contain Common Vulnerabilities and Exposures (CVEs) and suggested known fixes from the GitHub community which helps to improve security of the cyber world.
* **CODE DEVELOPMENT**: Code security has emerged as a rapidly growing concern in the field of usable security research. A major contributing factor to the production of insecure code by developers is the reuse of vulnerable resources, such as insecure open source code and third-party libraries. To address this issue, GITHUB provides numerous strategies aimed at assisting developers in producing secure and functional code have been studied. These include utilizing security warnings in development environments, code libraries, and compilers to a greater extent
* **CODE ANALYSIS AND SCANNING**. On September 30, 2020, GitHub launched code scanning. The security intervention is powered by CodeQL, a static code analysis tool, which is able to detect vulnerabilities listed by the Common Weakness Enumeration (CWE) for a range of popular programming languages.
* **VERSION CONTROL SYSTEM**: Github is the most preferred version control system because it has almost everything that developers need to get more effective results on cyber security. It is considered to be the basis of version control systems, because the software developers on cyber security, who have already learned to work on it, can easily possess other ones.