**Internship Logbook**

|  |
| --- |
| Date: 29th August 2022 (Week 5) |
| Objective of the activities:   * Introduction to database security * Understand three-tier architecture * Research database security issues and cybersecurity professional role in database security |
| Contents:   1. Understanding in technical knowledge  * Database security issues encompass misconfiguration, using default settings, excessive privileges, weak audit trails, SQL injection (SQLi), exposed and accessible backups, buffer overflow, denial of service (DoS), etc. * Before database hardening can be done, it is necessary to know which aspects need to be hardened. Hence, security posture assessment is conducted beforehand. * Cybersecurity professional role in database security involves classifying sensitive and insensitive data such that more security control is emphasis on sensitive data, manage data lifecycle, incident response, and creating security policy. Data lifecycle management is about how data is created, stored, used, shared, archived, and destroyed. In telecommunication industry, billing data is usually kept for 3 months before it is destroyed. Whereas for banking industry, data is usually kept for 7 years. * A three-tier architecture design infrastructure consists of frontend, middleware, and backend. Frontend usually made up of end devices / client. On the other hand, web servers and application servers are considered as middleware which are usually located in DMZ. Lastly, database is considered as backend and sit behind firewalls.  1. Understanding in non-technical knowledge  * It is important to do something methodically such that nothing is left out and keep things organized. * It is important for one to first understand the fundamentals and when learning something new, try to explore widely, look at things holistically, then focus on one point.  1. Understanding in skills  * Not applicable  1. Development of experience  * Exposed to Mr. Sugen’s IT career as he has been in the field for 40 years  1. Development of experience for future career  * Exposed how to tackle challenges with methodical approach  1. Demonstrate the personal skills in organisation  * Punctuality in attending scheduled meeting  1. Demonstrate the personal skills in people  * Effective communication in discussing research findings |

Company Supervisor’s signature & stamp: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Date: