| 10-Apr-24 | SOLID Principles and Design Patterns               | Understanding SOLID principles and various design     | Improved code readability, maintainability, and s  | In progress  | - Book: "Clean Code" by Robert C. Martin<br>br> - Online course: "Design Patterns in Java" o    |  |
|-----------|--|---|--|--------------|---|--|
| 15-Apr-24 | Code Quality Concepts                              | Deep dive into code quality metrics, static code an   | Improved codebase quality, reduced technical of    | Yet to start | - Tool: SonarQube<br>- Book: "Refactoring: Improving the Design of Existing Code" by Ma         |  |
| 20-Apr-24 | High-Level Design (HLD) Concepts                   | Exploring design patterns, scalability concepts, an   | Ability to design scalable, highly available syste | Ongoing      | - Book: "Designing Data-Intensive Applications" by Martin Kleppmann<br>- Online course:         |  |
| 25-Apr-24 | SQL Query Optimization and Database Improvemer     | Hands-on practice with SQL query optimization ted     | Improved database performance, reduced quer        | In progress  | - Online course: "SQL Tuning" on Pluralsight by Ami Levin<br>br> - Articles and tutorials on da |  |
| 30-Apr-24 | Testing Frameworks (JUnit, Cucumber, etc.)         | Learning and practical implementation of testing from | Enhanced code quality through automated testi      | Scheduled    | - Official documentation and tutorials for JUnit and Cucumber<br>- Online course: "Master       |  |
| 5-May-24  | API Improvements/Tuning, gRPC                      | Focus on API design best practices, performance       | Optimized API performance, improved scalabilit     | Scheduled    | - Official documentation for gRPC<br>- Online course: "Building Scalable APIs with gRPC"        |  |
| 10-May-24 | DevOps Tools (Jenkins, Docker, Kubernetes, Terrafo | Hands-on practice with popular DevOps tools and       | Streamlined development workflows, improved        | Scheduled    | - Official documentation and tutorials for Jenkins, Docker, Kubernetes, Terraform, Ansible <    |  |
| 15-May-24 | Cloud (AWS, Lambda, Kinesis), Monitoring Tools, El | Deep dive into cloud computing concepts, serverle     | Proficiency in cloud infrastructure management     | Scheduled    | - Official documentation and tutorials for AWS services, Lambda, Kinesis<br>br> - Online cour   |  |