Date	Topic	Description	Outcome	Status	Resources
10-Apr-24	SOLID Principles and Design Patterns	Understanding SOLID principles and various design patterns.	Improved code readability, maintainability, and scalability.	In progress	- Book: "Clean Code" by Robert C. Martin - Online course: "Design Patterns in Java" on Udemy by Dmitri Nesteruk - Articles and tutorials on SOLID principles and design patterns.
15-Apr-24	Code Quality Concepts	Deep dive into code quality metrics, static code analysis, and code review best practices.	Improved codebase quality, reduced technical debt, and enhanced team collaboration.	Yet to start	- Tool: SonarQube - Book: "Refactoring: Improving the Design of Existing Code" by Martin Fowler - Online course: "Code Quality and Code Review Tips" on Pluralsight by John Sonmez
20-Apr-24	High-Level Design (HLD) Concepts	Exploring design patterns, scalability concepts, and system architecture principles.	Ability to design scalable, highly available systems with improved performance.	Ongoing	- Book: "Designing Data-Intensive Applications" by Martin Kleppmann - Online course: "Scalable Web Architecture and Distributed Systems" on Coursera by University of Washington - Whitepapers and documentation from AWS, Google Cloud, and Azure.
25-Apr-24	SQL Query Optimization and Database Improvements	Hands-on practice with SQL query optimization techniques and database tuning.	Improved database performance, reduced query execution time, and better understanding of database internals.	In progress	- Online course: "SQL Tuning" on Pluralsight by Ami Levin - Articles and tutorials on database performance tuning - Practice with database profiling tools like pg_stat_statements for PostgreSQL or Query Store for SQL Server
30-Apr-24	Testing Frameworks (JUnit, Cucumber, etc.)	Learning and practical implementation of testing frameworks like JUnit and Cucumber.	Enhanced code quality through automated testing, improved test coverage, and faster development cycles.	Scheduled	- Official documentation and tutorials for JUnit and Cucumber - Online course: "Master Java Unit Testing with Spring Boot & Mockito" on Udemy by Sergey Kargopolov
5-May-24	API Improvements/Tuning, gRPC	Focus on API design best practices, performance tuning, and introduction to gRPC.	Optimized API performance, improved scalability, and understanding of modern RPC frameworks.	Scheduled	- Official documentation for gRPC - Online course: "Building Scalable APIs with gRPC" on LinkedIn Learning by Kesha Williams - Articles and tutorials on RESTful API design and optimization
10-May-24	DevOps Tools (Jenkins, Docker, Kubernetes, Terraform, Ansible, Shell Scripting)	Hands-on practice with popular DevOps tools and scripting.	Streamlined development workflows, improved deployment automation, and better infrastructure management.	Scheduled	- Official documentation and tutorials for Jenkins, Docker, Kubernetes, Terraform, Ansible - Online courses on DevOps practices and tools
15-May-24	Cloud (AWS, Lambda, Kinesis), Monitoring Tools, ELK	Deep dive into cloud computing concepts, serverless architecture, and monitoring solutions.	Proficiency in cloud infrastructure management, real-time data processing, and effective log analysis and monitoring.	Scheduled	- Official documentation and tutorials for AWS services, Lambda, Kinesis - Online courses on cloud computing and monitoring tools - ELK stack tutorials and guides