Java Syllabus [Github]

- **BASICS**
  - Data Structures
  - Control Statements
- **Enums**
- **OOP Concepts**
  - Inheritance
  - Abstraction
  - Polymorphism(Over Loading & Over Riding)
  - Encapsulation
  - Interface
  - Access Specifiers
  - Constructors
- **String Manipulation**
- **JSONObjects and JSONArrays-Add/Red/Remove/loop Items**
- **Exception Handling**
  - Try-Catch-Finally
  - Throws, throw
- **I/O Streams**
- **Collection Frame Work**
  - **List, Set, Map**
  - **Iterator**
  - **List Interface Classes**
  - **Set Interface Classes**
  - **Map Interface Classes**

MySQL
- Data Definition Language
  - Create
  - Alter
  - Drop
  - Truncate
  - Rename
- DML
  - SELECT
  - INSERT
  - UPDATE
  - DELETE
- TCL
  - COMMIT
  - ROLLBACK
  - SAVEPOINT
  - SET TRANSACTION
- MySQL Data Types
- Sorting
- Where/Like/Having Clause
- Group By
- Aggregate Functions
- Different types of JOINS and Where and When to use them
- Indexes
- Normalisation, Pros and Cons

Additionally Learn about the following

- **RESTful APIs**
- **HTTP Methods-GET vs POST, Query string**
- **JSON**
- **MVC Architecture**
- **SQL Injection**
- **XSS-Types,Causes, and Preventions**
- **DoS Attacks vs DDoS attacks**
- **Man in the middle attack**
- **Phishing**