

CI Preparation Guide

Design Patterns

<https://www.journaldev.com/1827/java-design-patterns-example-tutorial#strategy-pattern>
<https://www.journaldev.com/1827/java-design-patterns-example-tutorial#template-method-pattern>
<https://www.journaldev.com/1827/java-design-patterns-example-tutorial#builder-pattern>
<https://www.journaldev.com/1827/java-design-patterns-example-tutorial#decorator-pattern>
<https://www.geeksforgeeks.org/singleton-design-pattern/>
<https://www.geeksforgeeks.org/abstract-factory-pattern/>
<https://dzone.com/articles/factory-method-vs-abstract>
<http://www.codespaghetti.com/java-design-pattern-interview-questions/>

Code Smells

<http://www.programmergirl.com/identifying-code-smells-java/>

Code Coverage

<https://www.atlassian.com/continuous-delivery/software-testing/code-coverage>

Mocking

<https://www.softwaretestinghelp.com/mockito-interview-questions/>
<https://examples.javacodegeeks.com/core-java/powermockito/powermockito-tutorial-beginners/>
<https://www.youtube.com/watch?v=8S8o46avgAw>

Unit & Integration Testing

<https://www.toptal.com/java/unit-integration-junit-tests>

SOLID

<https://www.geeksforgeeks.org/solid-principle-in-programming-understand-with-real-life-examples/>
<https://deviq.com/solid/>

Ports and Adapters

<https://www.thinktocode.com/2018/07/19/ports-and-adapters-architecture/>
<https://medium.com/@codespeaks/a-quick-and-practical-example-of-hexagonal-architecture-in-java-7334e7f2ad43>

Git

<https://www.atlassian.com/git/tutorials/comparing-workflows/gitflow-workflow>
<https://www.freecodecamp.org/news/an-introduction-to-git-merge-and-rebase-what-they-are-and-how-to-use-them-131b863785f/>

Jenkins

<https://www.youtube.com/watch?v=7KCS7OsCoKO>

Sonar

<https://www.youtube.com/watch?v=BuTlJiOP9Ug>

Test Driven Development (TDD)

<https://hackernoon.com/introduction-to-test-driven-development-tdd-61a13bc92d92>
<https://www.youtube.com/watch?v=y8TcPr73Bwo>
<https://www.youtube.com/watch?v=s9vt6UJiHg4>
<http://aspiringcraftsman.com/2012/04/01/tdd-best-practices-dont-mock-others/>
<https://github.com/testdouble/contributing-tests/wiki/Don't-mock-what-you-don't-own>

Behavior Driven Development (BDD) & JBehave

<https://www.youtube.com/watch?v=VS6EEUVZGLE>
<https://www.toptal.com/freelance/your-boss-won-t-appreciate-tdd-try-bdd>

<https://www.youtube.com/watch?v=kNieSSoynW4>
<https://www.youtube.com/watch?v=eV7kBt89pWU>
<https://www.youtube.com/watch?v=dmqkCS8sPL4>

DDD

<https://www.youtube.com/watch?v=NNFJREcalcO>

JWT

<https://auth0.com/learn/json-web-tokens/>

OAuth

<https://www.youtube.com/watch?v=996OiexHze0>

OWASP

<https://sectigostore.com/blog/what-is-owasp-what-are-the-owasp-top-10-vulnerabilities/>

Spring Security

<https://www.youtube.com/watch?v=X8OnJ5T7YpE>

<https://www.youtube.com/watch?v=DbxzwOcpXBU>

Exception Handling

<https://stackify.com/best-practices-exceptions-java/>

<https://www.baeldung.com/exception-handling-for-rest-with-spring>

<https://www.toptal.com/java/spring-boot-rest-api-error-handling>

Spring Cloud

<https://www.baeldung.com/intro-to-feign>

<https://nirajsonawane.github.io/2019/03/21/Simplifying-Microservices-Communication-Using-Spring-Cloud-OpenFeign/>

<https://www.youtube.com/watch?v=aO3W-lYnw-o>

<https://www.youtube.com/watch?v=x1BR0D-buQg&list=PLVz2XdJiJQxz3L2Onpxbel6r72IDdWrJh>

<https://www.youtube.com/watch?v=rIS9eH5tEnY>

Microservices

<https://cloudacademy.com/blog/microservices-architecture-challenge-advantage-drawback/>

<https://microservices.io/patterns/refactoring/strangler-application.html>

<https://microservices.io/patterns/data/saga.html>

<https://microservices.io/patterns/microservice-chassis.html>

<https://livebook.manning.com/book/microservices-patterns/chapter-2/25>

SSL/TLS/Certificates

https://www.youtube.com/watch?v=T4Df5_cojAs

Pivotal Cloud Foundry (PCF)

<https://www.youtube.com/watch?v=IMM58syURi4>
<https://www.youtube.com/watch?v=okOv450mO7U>
<https://www.youtube.com/watch?v=Mol4JCWcotk>

Big O notation

<https://www.baeldung.com/java-algorithm-complexity>
<https://www.interviewcake.com/article/java/big-o-notation-time-and-space-complexity>

Problem Solving (Problems on arrays, linked list, Strings etc.)

<https://www.geeksforgeeks.org/subarraysubstring-vs-subsequence-and-programs-to-generate-them/>
<https://www.geeksforgeeks.org/sum-of-all-subsequences-of-an-array/>
<https://www.geeksforgeeks.org/write-a-program-to-reverse-an-array-or-string/>

<https://www.geeksforgeeks.org/minimum-halls-required-for-class-scheduling/?ref=leftbar-rightbar>

<https://www.geeksforgeeks.org/count-of-elements-on-the-left-which-are-divisible-by-current-element/?ref=leftbar-rightbar>
<https://www.geeksforgeeks.org/sum-even-odd-elements-array/>
<https://www.geeksforgeeks.org/maximum-number-of-unique-values-in-the-array-after-performing-given-operations/?ref=leftbar-rightbar>

Other Important Topics

<https://howtodoinjava.com/interview-questions/spring-mvc-interview-questions-with-answers/>
<http://tutorials.jenkov.com/java-concurrency/java-memory-model.html>
<http://tutorials.jenkov.com/java-concurrency/index.html>
<http://tutorials.jenkov.com/java-concurrency/deadlock.html>
<http://tutorials.jenkov.com/java-concurrency/deadlock-prevention.html>
<https://www.baeldung.com/java-executor-service-tutorial>