

## ENDAVA INTERNSHIP PROGRAMME | SPRING 2022

### STUDY MATERIALS FOR JAVA AUTOMATION QA ENGINEER

An **Automation QA Engineer** is a specialist whose responsibilities focused to improve the software development process by detecting errors in a product, so that requirements and goals for a software will be fulfilled and preventing defects from occurring again. Typical tasks of the QA specialists are: checking if the product complies with the requirements, assessing risks, planning tests, analyzing the test results, ensuring a good customer experience.

To be better equipped for the qualifying test and interview, we encourage you to examine the **studying materials**, recommended for **Automation Testing** internship:

- **Testing theory and basic concepts**

<https://www.istqb.org/downloads/syllabi/foundation-level-syllabus.html>

<http://testingchallenges.thetestingmap.org/index.php>

- **Software Development lifecycle**

[https://www.tutorialspoint.com/sdlc/sdlc\\_overview.htm](https://www.tutorialspoint.com/sdlc/sdlc_overview.htm)

<https://www.guru99.com/software-development-life-cycle-tutorial.html>

- **Database basics**

<https://www.w3schools.com/sql/default.asp>

<https://www.tutorialspoint.com/sql/index.htm>

- **Automation**

Understanding of data types, data structures and algorithms

<https://www.w3resource.com/java-exercises/string/index.php>

[https://www.hackerrank.com/domains/data-](https://www.hackerrank.com/domains/data-structures?filters%5Bsubdomains%5D%5B%5D=arrays&filters%5Bdifficulty%5D%5B%5D=easy)

[structures?filters%5Bsubdomains%5D%5B%5D=arrays&filters%5Bdifficulty%5D%5B%5D=easy](https://www.hackerrank.com/domains/data-structures?filters%5Bsubdomains%5D%5B%5D=arrays&filters%5Bdifficulty%5D%5B%5D=easy)

<https://www.w3resource.com/java-exercises/sorting/index.php>

- **OOP principles**

<https://www.javatpoint.com/java-oops-concepts>

[https://www.w3schools.com/java/java\\_oop.asp](https://www.w3schools.com/java/java_oop.asp)

- **Basic programming skills** in popular/trending languages

<https://testautomationu.applitools.com/java-programming-course/>

- Exposure to **Behavior Driven Development**

<https://www.javatpoint.com/cucumber-behavior-driven-development>

<https://cucumber.io/docs/bdd/>

- **Computer Science**

<https://www.educative.io/blog/beginners-guide-to-computers-and-programming>