medium.com

10 Great Java Frameworks Used In 2023 - Malvin Lok - Medium

Malvin Lok

9–12 minutes

Photo by Jan Mellström on Unsplash

These are the best Java frameworks and libraries that full-stack developers can learn in 2023.

If you want to be a full-stack Java developer, one who is capable of creating front and back ends of applications using the Java programming language and looking for the best resources such as

online events, then you have come to the right place.

In this article, I will share the best libraries and frameworks where you can learn Java for full-stack web development.

The Java programming language and platform has been very fortunate in terms of frameworks, standards and libraries, and I think this is one of the major reasons for its great success.

In addition to standard frameworks like `Swing`, `JavaFX`, `Servlets` and `JSP`, `EJB` and `JSF` for desktop GUI applications, there are many open-source frameworks and libraries available to Java programmers.

These open-source frameworks not only help speed up development but also enforce the use of best practices needed to build enterprise Java applications and desktop applications.

Frameworks like Spring, in my opinion, give the Java platform a much-needed boost by enforcing the dependency injection design principle at its core, which is critical for building loosely coupled systems.

Likewise, `Struts` and `Spring MVC` make web development easier than just using `Servlets` and `JSPs`. it is important for both beginners and experienced Java programmers to understand these frameworks, they not only help them in their work, but also get a job as more and more companies are adopting framework-based development.

I have seen many resumes that were not considered for interviews because they did not mention `Spring`, `Struts` or `Maven`. While I don't agree with this approach because if you are good at programming, OOP design and Java you can learn these quickly, it

does happen in the real world and it doesn't hurt to mention these frameworks in your resume if you have learned them.

The 10 Java frameworks I will share in this post include core Java frameworks, unit testing frameworks, Java web development frameworks, and of course building frameworks.

It's a good idea to at least learn about these open-source Java libraries and frameworks so you can study them in detail when you need to.

10 Essential Frameworks and Libraries for Java Web Developers

Here is my list of some of the must-have frameworks and libraries for Java web developers. The list includes Web development frameworks such as `Spring MVC`, `Struts`, `Seam`, `Primefaces` `Google Web Toolkit`, and `ORM` tools such as `Hibernate`, testing libraries such as `JUnit` and `Mockito`, and the `Eclipse RCP` platform for creating desktop GUIs in Java.

Spring MVC

`Spring MVC` is, without a doubt, the best Java web development

framework to date. In many ways, `Spring` makes Java development more comfortable and streamlined and gives it a much-needed boost. at its core, `Spring` provides an IOC container that manages system objects and connects them together, but that's only one of Spring's features.

Spring has a set of libraries that are critical for enterprise Java development. spring provides `Spring Security`, a top-notch security framework that provides an easy way to implement LDAP authentication, Open ID authentication, control concurrent active sessions, and several other out-of-the-box features.

`Spring MVC` is another pillar of the `Spring Framework`, providing an implementation of the `Model-View-Controller` design pattern, as well as implementing several other web-related best practices, such as view resolvers.

The latest release of `Spring 5` also adds support for `Kotlin`, the official language for Android development, as well as several reactive programming features that are useful for developing modern web applications. In addition to these, Spring offers you a lot more.

MicroNaut