**JAVA FULL STACK DEVELOPER**

A Java Full Stack Developer is a programmer who has expertise in both front-end development and back-end development. A full-stack developer can easily toggle between different parts of the application without causing overload and comes in handy when designing new features or planning forward. The said role can be a quite a rewarding job as full-stack developers are in high demand and are being hired at handsome salaries.

A Java Full Stack development process involves all three layer- Presentation layer (front end part that deals with the user interface), Business Logic Layer (back end part that deals with data validation) and the database Layer. It takes care of all the steps from the conception of an idea to the actual finished product. They are well versed with programming languages needed for client side development. They know how to write back end applications and APIs that power the website. They can work with databases, operating systems and they can also handle project management activities. Basically, they are comfortable working on all tiers of application development.

Having a specialist work on each of the different subsystems of web development process proves quite complex and expensive. Companies are demanding full stack developers who are proficient in working across multiple stacks.

**Full Stack Web Development Guide:-**

There are some essential technologies that you must learn in order to become a full stack developer:-

**Front End Technologies:-**

1. **HTML/CSS:-**  
   HTML (Hypertext Markup Language) and CSS (Cascading Style Sheets) are the building blocks of a website as they help to add and style the content. Both HTML and CSS are the basic requirements to be a successful full-stack developer. HTML is used for using markup to define the structure of the webpage, whereas CSS is used for the presentation of the HTML elements. Being proficient in HTML5 and CSS3 is an added advantage as it allows you to develop and design content with higher precision.
2. **JavaScript:-**

JavaScript is a popular object scripting language which is used to add behaviors using HTML. JavaScript is used to write client-side, front-end, and back-end code for servers, runs natively on the browser and can be used with Node.js as a server-side scripting language. To be a successful Java Full Stack Developer, you should have in-depth knowledge about JavaScript, its features, and its frameworks like React and Angular.

**Backend Technologies:-**

**Backend Languages:-**

* **Java**: Java works both in front-end and back-end and is widely used for building web applications.

**Database and Web Storage:-**

In order to design and develop dynamic websites, one should surely know how database driven websites store and access data. Learn the benefits of relational database management system like SQL databases and linking them to backend languages. Among the more commonly used databases are MongoDB, Oracle, MySQL, SQLServer, etc.Understand how to connect a backend language with a database. Gain knowledge about web storage so that you know how to store cookies, sessions and cached data in the browser.

**API using REST:-**

**HTTP is a protocol that enables serves to communicate with the client. REST is an interface** which uses HTTP to collect data and generate operations. In simple words, the REST API is a translator that allows the front-end to understand the backend.

**Application Architecture:-**

Developing complex applications would require a deep knowledge of how the code should be structured, how the data needs to be structured in the database, how to separate files, where to perform computational tasks and where to host large media files. So a full stack web developer surely needs a deep knowledge of web application architecture.

**Version Control System:-**

A full stack web developer needs to be well versed with a version control system. An understanding of GIT will help you keep track of any changes that you make to the codebase.

**Job Opportunity For Java Full Stack Developer:-**

Newly set up companies and start-ups are increasingly on the lookout for such experts who can help them achieve the same results in a lesser budget. So rather than having a front end, back end and database expert, hiring one full stack developer who can do the job of all 3 individuals prove to be cost effective. Moreover, the full stack developer understands the bigger picture and can provide a seamless integration of various subsystems in the development process.

There are various sectors where you can work has.

1. Java web developer

2. Java web master

3. Web software development

4. Android developer.

5. Automation tester with selenium

In **India**, the average salary of a Java full stack developer ranges between **3.9 lakhs to 7 lakhs** depending on the number of experience in the field. Major IT companies like **Wipro, SAP, TCS, Deloitte*,*** and HCL hire full stack developers who are a jack of all trades.

In **USA**, the average pay of a Java full stack developer is **$76,000**. **Wells Fargo, HP, Walt Disney, Expedia** is some of the major employers of full stack developers.