

Full Stack Development: A Detailed Roadmap For 2020

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A fullstack developer needs to work very hard and has to be aware of all the latest innovations.

A [Fullstack development company](#) needs developers with big skill sets. It is very hard for beginners to find the right path to learn full-stack development.

It might feel very intimidating at first just to know what to learn and what is the path to follow.

Learning all the languages and then fitting them all together to create software is not an easy task.

Below in this article are the things that a developer needs to learn to become a full-stack developer. All the things are important and there is a roadmap to learn them.

There is a foundation that has to be built first and then the developers can move to proper language and framework learning.

Below is a list that will guide the developers and other people who want to become full-stack developers. All the things that are listed below will be an efficient addition to the skill set.

Let us look at the foundation first

Before going fully into full-stack development it is better to learn something for the foundation. To be the best website developers it is important to learn HTML and CSS.

Both of them are the basis of every website development. Every developer who is planning to join a website development services company should learn these first.

HTML and CSS:

A full-stack development company wants people who have at least the knowledge of HTML, CSS, and JavaScript.

- HTML or HyperText Markup Language is very necessary for every website development. HTML is used to define and provide a structure by providing the website with content and other important things. HTML is a simple markup syntax.
- CSS or Cascading Style Sheets are used to provide style to the website. It is one of the simplest ways to add style to any website. By this, the developers can add different fonts, colors, and layouts to the website.

The first step is to learn and be perfect with HTML and then the developers should move on to CSS to make their websites more attractive.

It is very important to at least learn the basics of both these website development languages. These languages were and are still very important for website development services.

Programming languages that are important for full-stack developers

1. JavaScript
2. Typescript
3. Python

JavaScript

It is the language that is important to add dynamic features to the websites. This one is essential for the implementation of the underlying ECMAScript.

It is very important for the full stack developers to learn JavaScript right from scratch. JavaScript can be one of the best additions to the skill set of any developer.

There are many frameworks of this language that can be used for front end development (Angular, React, Vue) and back end development (Node).

It is also very easy to learn the basics of JavaScript. This language has features that make it one of the best website development languages.

Typescript

Angular has gained much hype and with it. Typescript has also become popular. The developers who wish to learn angular should learn Typescript before it.

It is basically an addition to the JavaScript, the next level after it. It is mostly used with JavaScript to enable features like type checking into the website.

This language provides great tools when it is used with code editors like Visual Studio. With this, the developers will find the automatic importing of modules.

Python

This language is at the top of all the languages in the world at this point of time. It is very important for full stack development services to hire developers who can use Python.

The developers who have not yet added Python to their skill set should now learn it. This is the high time to learn and implement it.

With the use of Python, the developers can cover a wide range of use cases. The users will be able to implement

command-line scripts, GUI and Web applications.

This language is currently also helping with scientific computing. There are some frameworks of this language that can also be learned with it to add up to the website development skillset.

Front End Development Frameworks Important For Full Stack Development

Frameworks, either backend or frontend make the development of common functionalities easier and much faster.

Before learning the frameworks it is important for the developers to learn the underlying technology stack (forex. JavaScript).

1. Vue.js
2. React.js
3. Angular.js

Vue.js

This framework gained great popularity in the year 2019. Most of the web development companies used it and got satisfying results.

This framework is very easy to learn and is a great choice for small projects. Developers can learn it very quickly and can see their results very soon.

React.js

This is the JavaScript framework, it has a library for developing user interfaces. The developers can create amazing user interfaces by using this framework.

The developers can easily design simple views for each state of their web application.

Declarative views can make it easy to debug the website and can make the code predictable. This framework helps the developers in creating powerful single-page applications.

Angular.js

This framework is important to develop client applications with HTML and JavaScript or Typescript.

This framework can easily combine dependency injection, end-to-end tooling, declarative templates, and it can

integrate best practices that can solve the development challenges.

This framework was also one of the most popular frameworks in the year 2019. This is one of the important frameworks and should be learned by full-stack developers.

Back End Development Frameworks Important For Full Stack Development

Below are some back end development frameworks that can be learned and used by the full-stack developers:

1. Node.js
2. Django

Node.js

Fullstack development services need developers who have proper knowledge of a programming language and its frameworks, both front end.

Node.js is one of the most powerful frameworks for the purpose of backend development. This framework enables the developers to execute the JavaScript code at the back-end of the application. It is extremely powerful.

Django

This is a framework that is completely written in Python. The developers who like the elegance of the programming language Python will like this framework too.

The developers who wish to use Python at the backend of their custom software development project, Django is the framework they should choose.

Conclusion

Custom software development and website development companies want to hire developers who have knowledge of stacks.

There are many stacks that can be learned nowadays and the languages and frameworks that are important in 2020 are mentioned above.

Being a full-stack developer comes with lots of responsibilities and hardships. The job is interesting but it needs proper knowledge of full-stack.