

JavaScript - The Future of Web development.

JavaScript is a lightweight, interpreted programming language and is best known as the scripting language for Web pages. JavaScript runs on the client side of the web, which can be used to design or program how the web pages behave on the occurrence of an event. JavaScript is an easy to learn and also powerful scripting language, widely used for controlling web page behavior. We all are familiar with python, c, c++, java and other programming languages. JavaScript is also one of the programming languages mostly used for web development.

Overall, web developers can be summed up into three general types with each one fulfilling a unique need in the process of creating websites.

1. Frontend Web Developer

A front-end web developer is responsible for implementing visual elements that users see and interact with in a web application. They design the website to make it more attractive to users . If you have to become a frontend developer you need to know at least HTML, CSS, Javascript. There are so many javascript frontend web frameworks available but the most famous and most commonly used by developers is React JS, Angular JS, Vue JS.

2. Backend Web Developer

A backend web developer is responsible for server-side web application logic and integration. Back-end developers usually write the web services and APIs used by front-end

developers and mobile application developers. There are so many backend languages available but most used backend languages are Javascript, Python, Java and PHP.

3. Full Stack web developer

A Full Stack Web Developer is a one who works with both the front and back ends of a website. They can tackle projects that involve databases, building user-facing websites, or even work with the client side. Full Stack web developers should know the front end as well as backend languages.

Why JavaScript is so famous

1. Use of javascript in the backend that eliminates the learning of new programming languages and developers directly learn Node JS which is a JavaScript runtime environment that runs on the V8 engine.
2. NodeJS is built upon Chrome V8's engine powered by Google. It allows Node to provide a server-side runtime environment that compiles and executes JavaScript at lightning speeds. Lightweight Javascript achieves high performance with fewer lines of code when compared to Java or C. The Chrome V8 engine is also being updated constantly as Google continues to invest heavily in it.

There are so many reasons that developers prefer javascript at backend rather than other programming languages. Around 12.4 million developers worldwide use Javascript. Unsurprisingly, for the

eighth year in a row, JavaScript has maintained its stronghold as the most commonly used programming language. Around 67.7 % of developers use javascript. These are some reasons that make javascript the future of web development.

Video Link : -

YouTube Link :- <https://youtu.be/Mvt50hKLL6U>

Google Drive :-

https://drive.google.com/drive/folders/1G9m948znVtbHynuVW_oH3Alz9hjYKS_n?usp=sharing