

# How to start web development

By: Mr.Qi

## Introduction

Web development is the fastest way to get experience with software development. Web development has a frontend, backend and framework that will give you a nice exposure to software development in general. Learning web development may be the most useful skill that can be leveraged in job interviews, resumes and technical understanding.

## HTML, CSS, JS

To start understanding web development, you need to first learn the three fundamental components of web development, HTML, CSS, and JS. HTML is the blueprint of any web page. Metaphor wise if a web page is a house then HTML is the bricks of these houses, CSS is the color or decoration of the houses, JS is the door and all the pipes or utilities in the houses that create heat in the house or have running water. Basically JS makes the house function.

Learning these fundamentals requires practice. So here is a list of youtube videos teaching you the basics of HTML, CSS, JS.

<a href="#">HTML &amp; CSS Project Tutorial - Build a Recipes Website</a>	<a href="#">Frontend Web Development Bootcamp Course (JavaScript, HTML, CSS)</a>
<a href="#">Parallax Scrolling Website   How to Make Website using Html CSS &amp; Javascript</a>	<a href="#">Create a Responsive Personal Portfolio Website Design Using HTML CSS &amp; JavaScript</a>
<a href="#">Learn JavaScript - Full Course for Beginners</a>	<a href="#">CSS Tutorial – Full Course for Beginners</a>

## Node.js

You don't have to learn all the things about Node.js but understand this software provides many frontend frameworks and many backend framework that will help web developer to develop website better and faster.

## React, JS and functional component

React is a frontend library built in JS that is used for building interactive user interfaces efficiently. For example, functional components allow you to create HTML components inside a JSX function and you can call that function to generate those HTML you wanted. Basically it helps modularize HTML tags into smaller functions that can be reused. Learning React will take a substantial amount of time from you and it is best to learn it bit by bit. Here are some videos you can use as a way to learn how to build a frontend using React. After watching all these videos you should become somewhat familiar with React. Keep in mind that it should take at least 5 months for you to learn everything.

<a href="#">React Course - Beginner's Tutorial for React JavaScript Library [2022]</a>	<a href="#">Learn React In 30 Minutes</a>
<a href="#">React JS Tutorial For Beginners 2022 playlist</a>	<a href="#">Learn React Router v6 In 45 Minutes</a>

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## Bootstrap, MUI libraries

Bootstrap and MUI are both frontend libraries that have similar founding concepts built into the tech. Learning these frontend libraries can help you greatly in frontend development since they can generate cookie cutter responsive design with very little time. These libraries are also open sourced so you can actually use their tech for free essentially. Here is a list of youtube videos learning these frontend libraries.

<a href="#">Material UI 5 (MUI) React Tutorial   MUI Responsive Real Project</a>	<a href="#">Bootstrap CSS Framework - Full Course for Beginners</a>
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These videos may not explain everything, but basically their principle is the same. 12 columns for every row, and these html elements that have the prop for small, medium, large , extra large size screen will have a certain number of columns. The element must take up that many columns. Thus resizing the window will make those elements stay consistent in terms of their scale in relative. Here is what this may look like. Every row is 12 so you cannot go over 12. If it happens that you go over 12, the element will go out bound to the line.

Sz 1	Sz 1	Sz 1	Sz 1	Sz 1	Sz 1	Sz 1	Sz 1	Sz 1	Sz 1	Sz 1	Sz 1
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Sz 2	Sz 2	Sz 2	Sz 2	Sz 2	Sz 2
------	------	------	------	------	------

Sz 3	Sz 3	Sz 3	Sz 3
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Sz 6	Sz 6
------	------

Sz 12
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## Backend, SQL, Sequelize

The backend is responsible for storing data, extracting data, parsing data and processing the data. To learn web dev backend you must learn about SQL, Server, Sequelize ORM, API, rest API and mysql (or postgre sql). You can also learn Non-SQL Database, but those options may not be free. Here is a list of videos explaining backend and other Database concepts.

<a href="#">What is a Server? (Deepdive)</a>	<a href="#">SQL Tutorial - Full Database Course for Beginners</a>
<a href="#">MySQL Tutorial for Beginners [Full Course]</a>	<a href="#">Sequelize Tutorial</a>
<a href="#">What is a REST API?</a>	<a href="#">REST API MADE EASY playlist</a>

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## **Fullstack**

Congratulations, by the time you're at the end of the guide you should atleast have 100 hours spent learning about how to do basic web development. The rest of the learning will be on you! Hey, go make a website now!