

What is Full Stack?

Fullstack Development is a type of software development that involves working on both the backend (server) and the frontend (client).

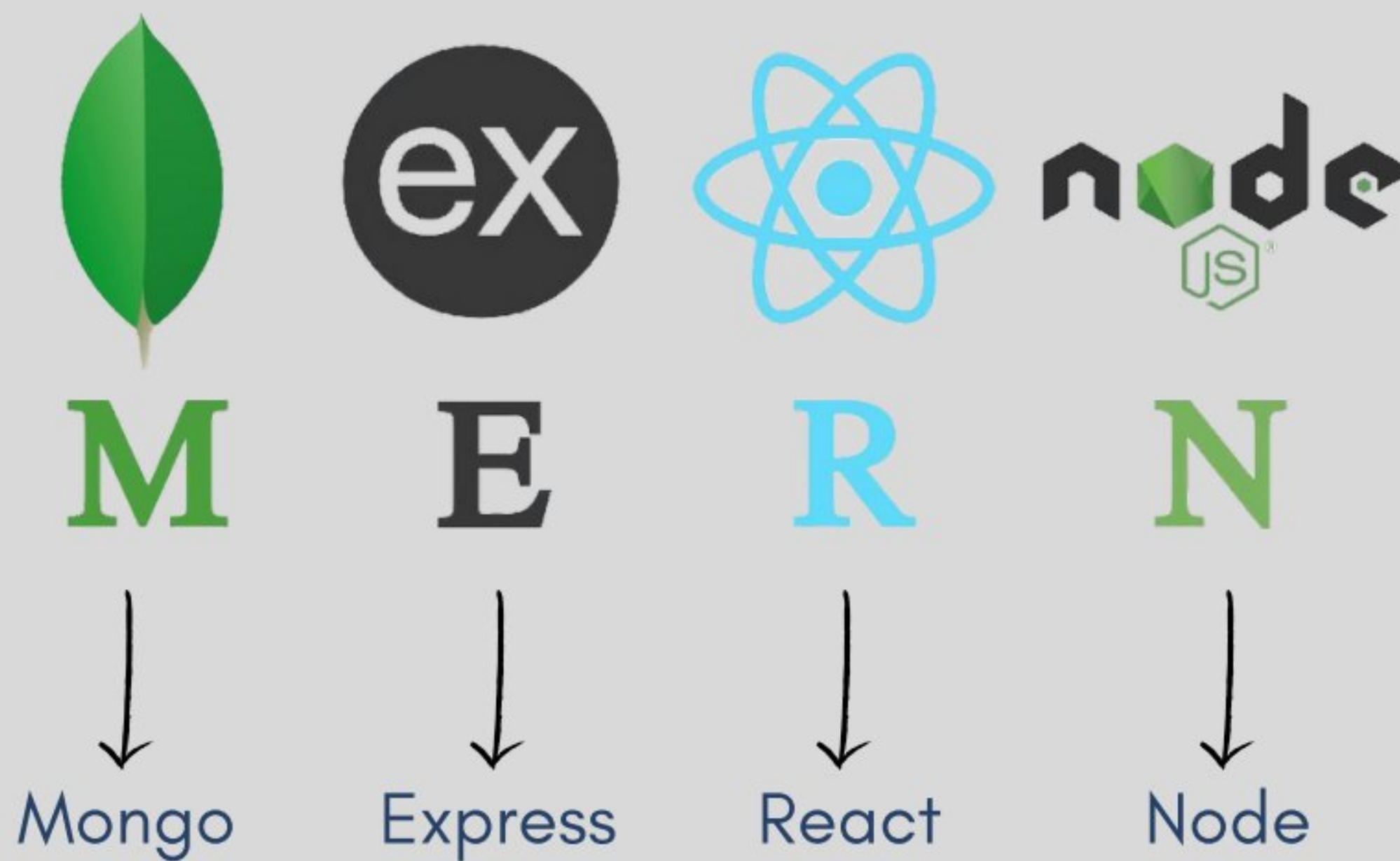
How you can become Full stack developer?

There are various ways to become a fullstack developer. There are many technologies that you can work with to become a fullstack developer.

In this I will talk about a path that involves starting with HTML, CSS, JS and then learning the MERN stack.



What is MERN?



React – Used to build the frontend

Nodejs and Express – Used to build the backend

MongoDB – Used as the database.

All these technologies are built on JavaScript.

MERN stack has become very popular as it is very easy and fast to build applications using the MERN stack.





- Learn HTML, CSS, JavaScript

HTML, CSS and JavaScript are backbone of all websites.



HTML provides the basic structure.

5 Days



CSS provides the skin to the structure in the form of design, formatting, and layout.

5 Days



JavaScript adds interactivity and logic to the website.

10 Days

- Start with HTML, CSS and JavaScript. Do not directly jump to learning React or other frameworks/libraries.
- CSS is difficult but is something that you should learn well. Do not directly jump to using Tailwind or Bootstrap.
- Do not wait to complete JS before starting to build projects. JS is huge and takes time to learn.
- Most companies have UI Machine Coding Round for frontend development roles where you cannot use any framework/library.





- Learn React

React is a JavaScript library created by Facebook, it is one of the most used frontend libraries in tech companies.

Almost all the modern tech companies from early-stage startups to the biggest tech companies like Microsoft and Facebook use React.

Concepts to master in React are

- Class and function based components
- State and props
- Lifecycle hooks
- Fetching data from APIs
- Controlled & Uncontrolled Components
- Routing in React
- Context API & React hooks





node.js and express

Express is a minimal and flexible Node.js web application framework that provides a robust set of features for web and mobile applications.

Most big companies use Java or Java-like languages for the backend. Most startups use Python or Node+Express for the backend.

Express helps build the backend very easily while staying in JavaScript ecosystem. It is preferred for self-projects as it helps focus on learning development and building projects pretty fast.





MongoDB is a non-relational document database that provides support for JSON-like storage. The MongoDB database has a flexible data model that enables you to store unstructured data, and it provides full indexing support, and replication with rich and intuitive APIs.

MongoDB has become popular with developers in part due to the its intuitive API, flexible data model, and features that include:



Free resources for learning HTML, CSS, JavaScript

HTML & CSS

w3School - <https://www.w3schools.com/html>

MdnWeb Docs - <https://developer.mozilla.org/en-US/docs/Web/HTML>



Javascript

MdnWeb Docs - https://developer.mozilla.org/en-US/docs/Learn/JavaScript/First_steps

Dev Docs - <https://devdocs.io/javascript/>



Namastey Javascript –
Akshay saini



freeCodeCamp.org



Free resources for learning Mongo, Express, React & Node

Mongo

MongoDB Docs: <https://www.mongodb.com/docs/manual/introduction>

mongoose Docs: <https://mongoosejs.com/docs/>



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Amigoscode



Node & Express

Node Docs : <https://nodejs.org/en/docs>

Node DevDocs : <https://devdocs.io/node>

Express Docs : www.expressjs.com/en/starter/installing.html

Express Guide : <https://expressjs.com/en/guide/routing.html>



React

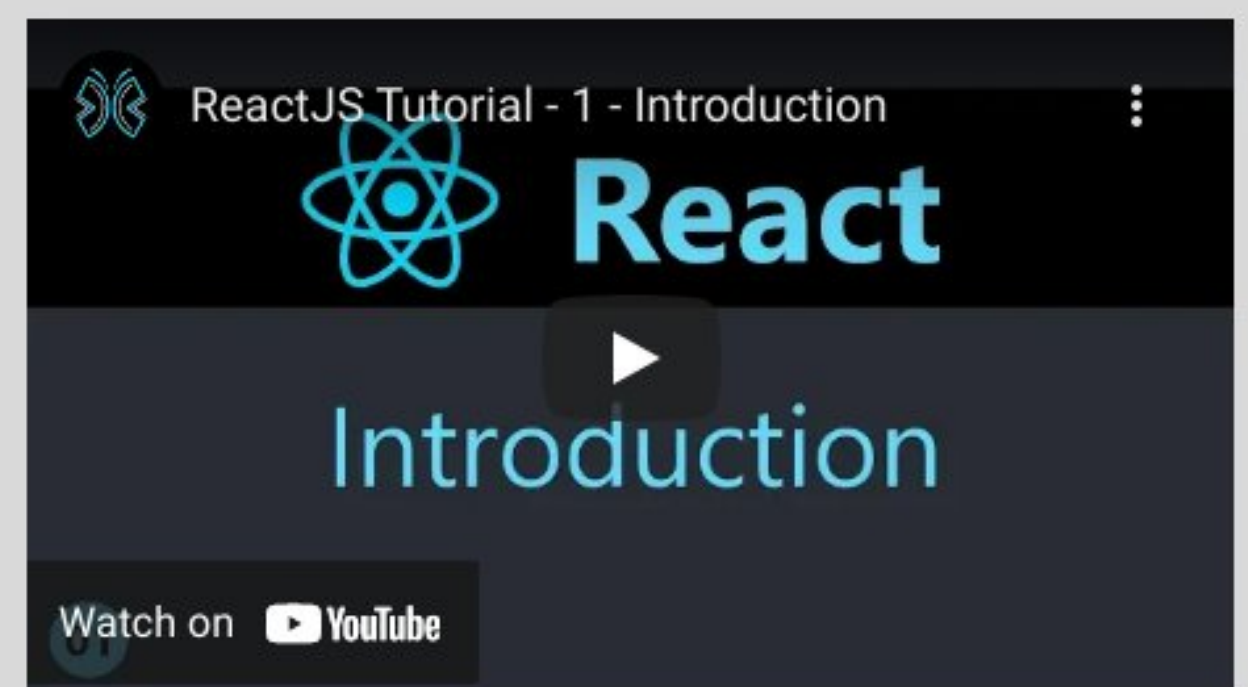
React Docs : <https://reactjs.org/tutorial/tutorial.html>

W3School : <https://www.w3schools.com/REACT/DEFAULT.ASP>

React Tutorial : <https://react-tutorial.app/>



Codevolution



Academind



Traversy Media



Other Essentials required

Git and Github

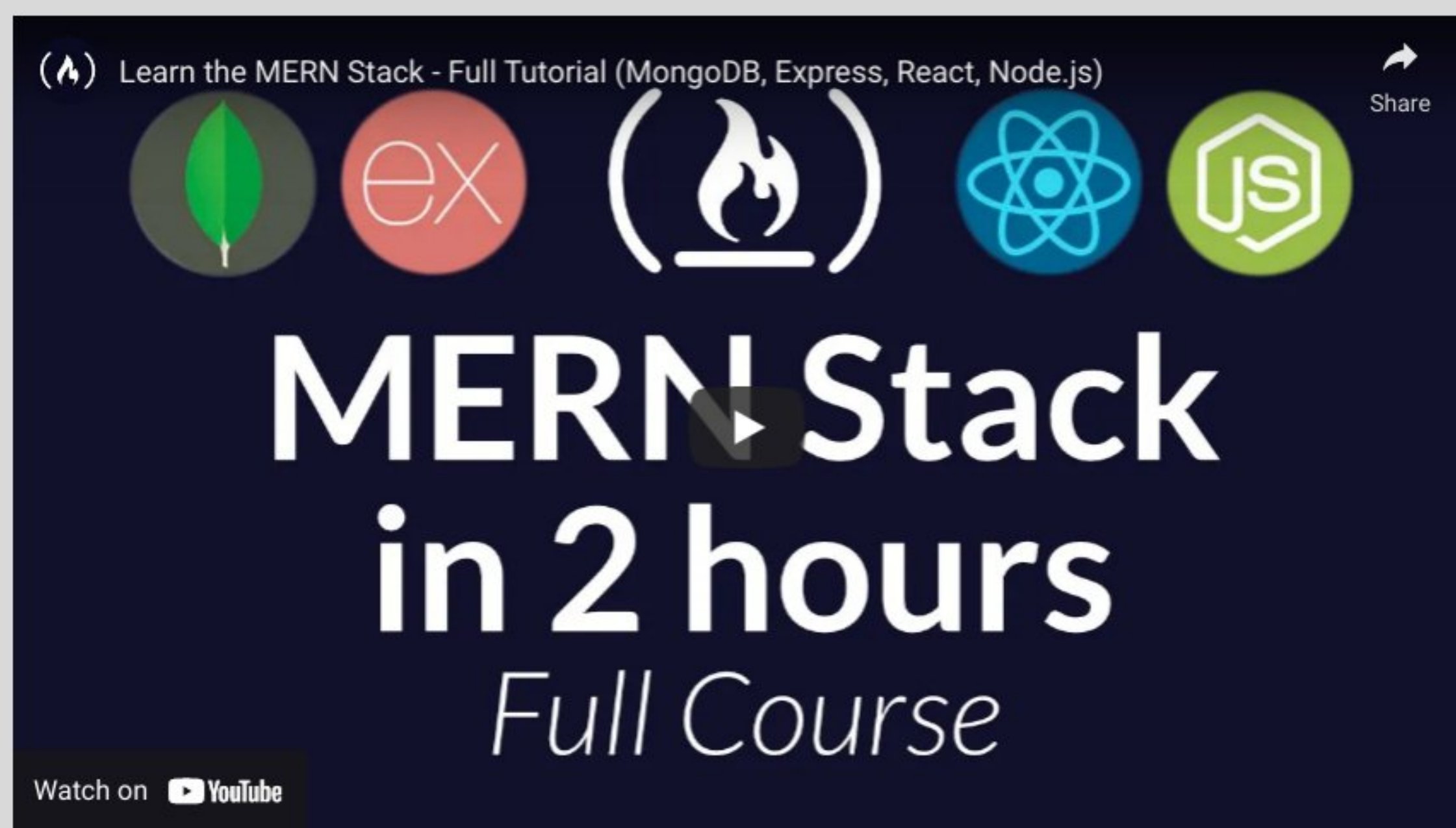
Learn Git : <https://www.atlassian.com/git>

Github Docs : <https://docs.github.com/en>

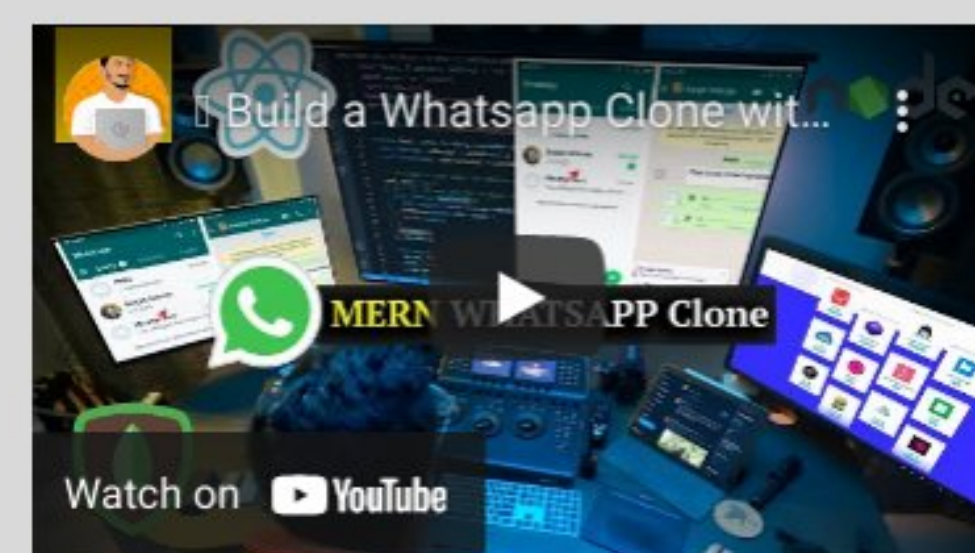
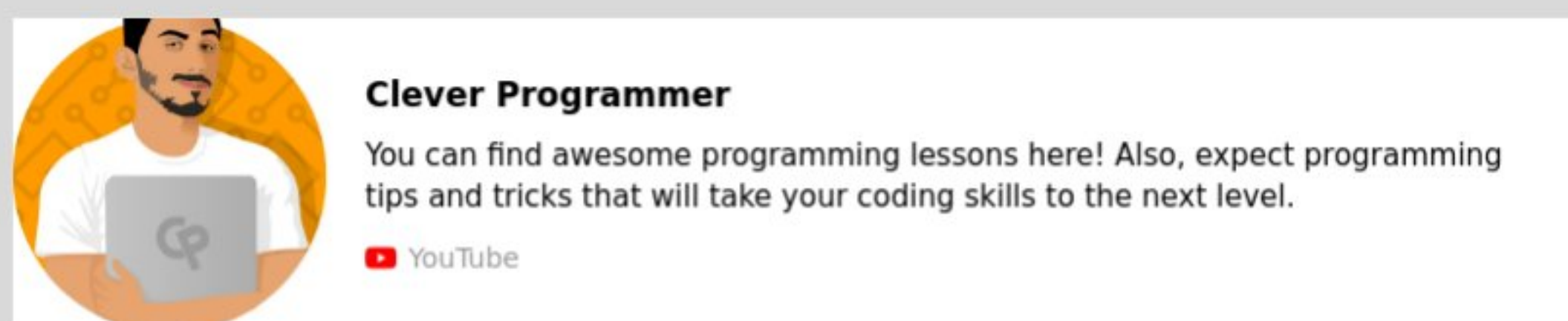




Free Complete MERN stack Series



For Building MERN Projects
You can follow



Paid resources for MERN Stack

The Complete 2022 Web Development Bootcamp

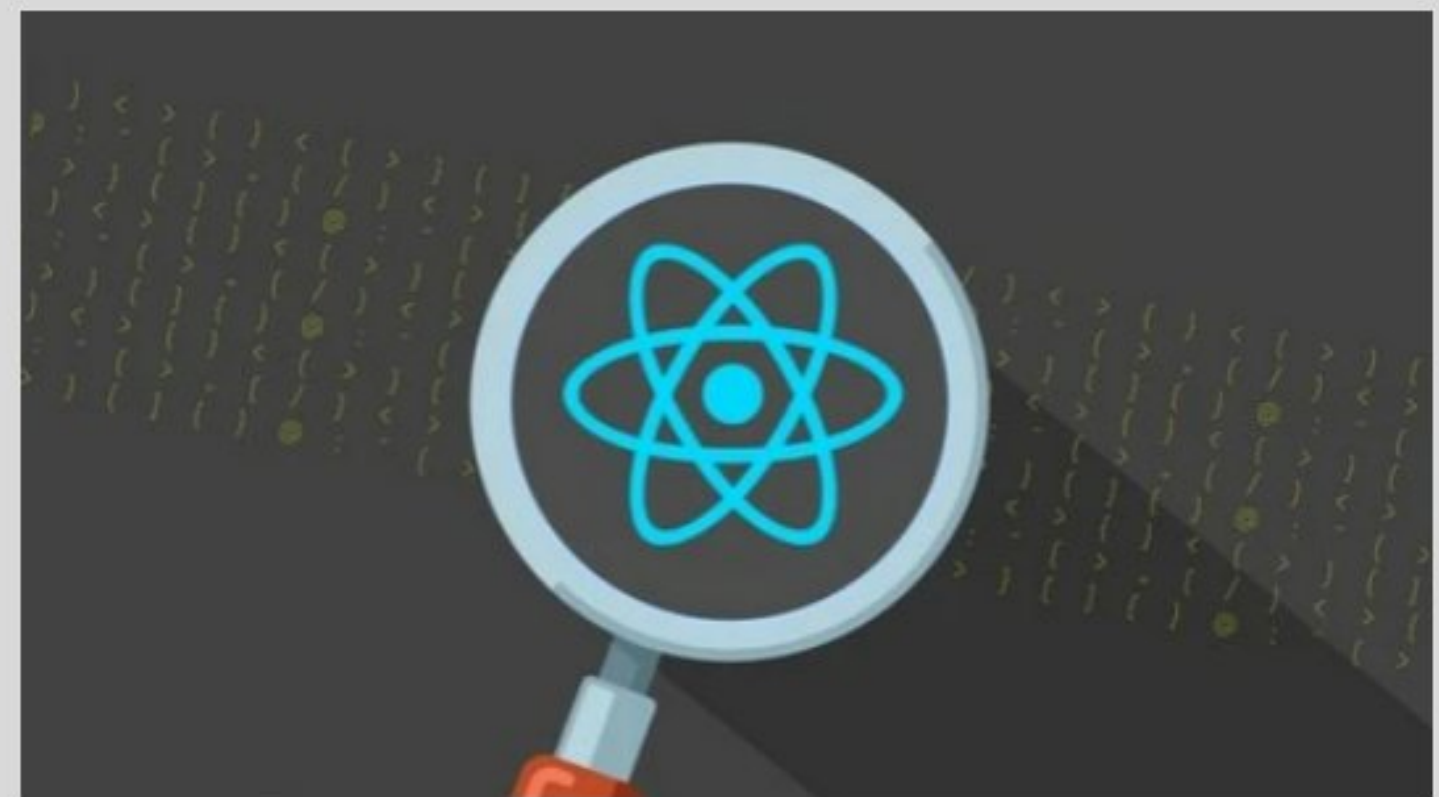


The Complete 2022 Web Development Bootcamp

Become a Full-Stack Web Developer with just ONE course. HTML, CSS, Javascript, Node, React, MongoDB, Web3 and DApps

 Udemy

React - The Complete Guide (incl Hooks, React Router, Redux)



React 16: The Complete Course (incl. React Router 4 & Redux)

Dive in and learn React.js from scratch! Learn Reactjs, Hooks, Redux, React Routing, Animations, Next.js and way more!

 Udemy

The Complete Node.js Developer Course (3rd Edition)



The Complete Node.js Developer Course (3rd Edition)

Learn Node.js by building real-world applications with Node JS, Express, MongoDB, Jest, and more!

 Udemy

