

Choose one the engineering intern and build a road map for his or her project?

I found a frontend intern and he requested he wanted a roadmap for a website where people can view his service

Objective

Build a roadmap of a website from fundamental

Stage 1

Tools that you need to create a website

The Command-Line. The Command-Line is essentially learning basic commands such as: Creating directories moving directories, and creating new files

Design Tools (I.e., Figma) lets you inspect the code of the elements, and then measure the layout, Figma design Get colours and typography, and use spaces correctly

Git And GitHub. Git is a Version Control system used for tracking changes in your project it's a collaboration tool for developers and digital marketers

HTML is essentially the “skeleton” for your website. HTML is how you structure your website.

Cascading Style Sheets (CSS) A markup language, CSS is responsible for giving HTML documents and webpages a face. In other words, it describes how an HTML page should look

JavaScript is a popular programming language that you'll mainly work with in web development (UI) events (i.e., mouse over, mouse down, click, etc.)Fetch API, and so on.

Stage 2

Frame work

- **Sass** is a pre-processor scripting language that makes the CSS look nicer and develop faster.
 - **NPM** is a package manager for JavaScript, letting you install various packages quickly on a machine.
 - **React** is a front-end framework that's useful for starting web developers.
 - **jQuery (Python)** is a framework that helps you develop an application faster, since much of its assets are pre-built.
 - **Express/ Node (JS)** is a JavaScript framework that's easy to learn and implement, and it can be used by any web developer.
 - PostgreSQL
 - MERN Stack (MongoDB, Express, React and Node)

Stage 3

Deployment

Involves various processes to make it work in your favor like load balancing, various actions from GitHub, SSH, monitoring, and SSL certificates

- **Load balancing** is when workloads are distributed across multiple servers. This process prevents any single server from getting overloaded with things to do.
- **GitHub actions** let you create custom automated software development cycle workflows in your repository, consisting of varying tasks.
- **Secure Socket Shell (SSH)** is a secure way to access computer over unsecured servers by encrypting data.
- **Monitoring** is essential to web applications, because with many users on said applications, things like performance and vulnerability will come up.
- **SSL Certificates** allows websites to move from HTTP to more secure HTTPS. These certificates also contain website public key and other info.