

2023

# FULLSTACK WEBDEV ROADMAP

Basics of HTML, CSS & JS  
Choosing a framework  
Version Control  
Choose a language for backend  
Head to Databases  
Devops CI/CD



Complete 7 Months Guide



# LEARN THE BASICS

( 1 MONTH )

## HTML

- Forms & Validations
- Conventions and Best Practices



## CSS

- Making Layouts
- Floats, Position, Display, Grid, Flexbox, Box Model
- Responsive Design

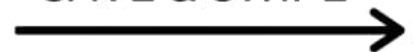


## JavaScript

- Syntax & Basic Construct
- DOM Manipulation
- Fetching APIs / AJAX
- ES6+ Syntax



SAVE & SWIPE



# CHOOSE A FRAMEWORK ( 1.5 MONTH )

(Choose any 1)

## CSS

- Bootstrap
- Tailwind
- Bulma, Foundation or any other.

## PREPROCESSOR

- SASS
- Less

*\*My Preference*

**B**

Sass



## JavaScript

- React
- Angular
- Vue

SAVE & SWIPE



# VERSION CONTROL SYSTEM

( 15 DAYS )

- Git
- Github / Gitlab / BitBucket



## Package Managers

- NPM
- Yarn



## Module Bundlers

- Webpack
- Rollup
- Parcel



**\*Note** - If you have chose ReactJs you should also learn

- NextJs
- Redux



SAVE & SWIPE



# FRONTEND DONUT

Wanna have a donut?

## CSS

- Floats & positions
- Flexbox
- CSS Grid
- Display & transform
- Box Model
- Media Queries
- Responsive Design

## HTML

- Forms and validations
- Semantic Tags
- Accessibility & SEO basics
- Convention & best practices

## VCS

- GIT
- GITHUB
- Gitlab
- Bit Bucke (any one)

## JAVASCRIPT

## FRAMEWORKS

- React Js
- Angular
- Vue Js (any one)
- Bootstrap
- Tailwind
- Bulma
- Semantic UI

## CSS 3

## CSS 3 PREPROCESSOR

- SASS
- LESS
- (any one)

## JAVASCRIPT(ES6)

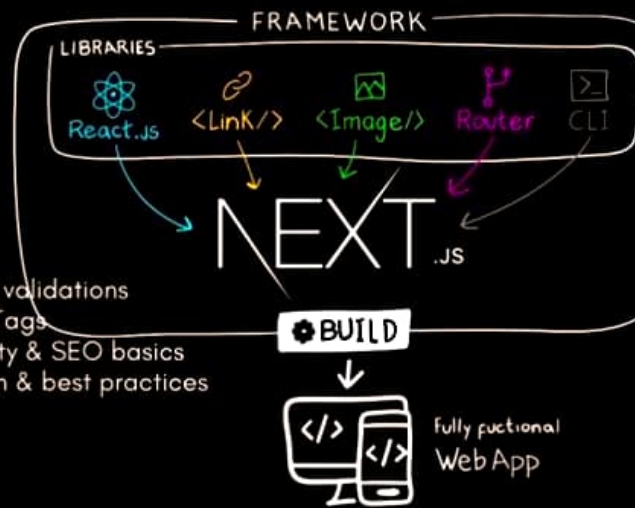
- Syntax & basic constructs
- DOM Manipulation
- Functions, Classes & Objects
- Fetch API or AJAX
- ES6 + Syntax
- Hoisting, Closures, Prototype
- Event Bubbling, shadow DOM

## DESIGN TOOLS

Figma  
AdobeXD  
Photoshop  
Illustrator  
(any one)

Everything explained on  
[@developers\\_community...](#)

( 3-4 MONTHS )  
Frontend Finished



## ARRAYS IN JAVASCRIPT

## 6 WAYS TO REMOVE DUPLICATES FROM AN ARRAY!

## 9 JAVASCRIPT SHORTHANDS!

## WEB APIs YOU NEED TO KNOW!

## SPREAD OPERATOR USE CASES!

## 8 WAYS TO LOOP OVER AN ARRAY

## CSS FILTER()

## CSS GRID USE CASES!

## Want to choose FLEXBOX OR GRID!

## CSS FLEXBOX USE CASES!

## CSS MEDIA QUERY

## CSS PSEUDO SELECTORS



# BACKEND STARTS

( 1.5 MONTH )

## Choose & Learn a language (Choose any 1)

- JavaScript
- Java
- C#
- PHP
- Python
- Ruby
- Go
- Rust
- NodeJs

## Some Knowledge on OS & terminal commands

- Process Mangement
- Threads and Concurrency
- Basic Networking Concepts

SAVE & SWIPE

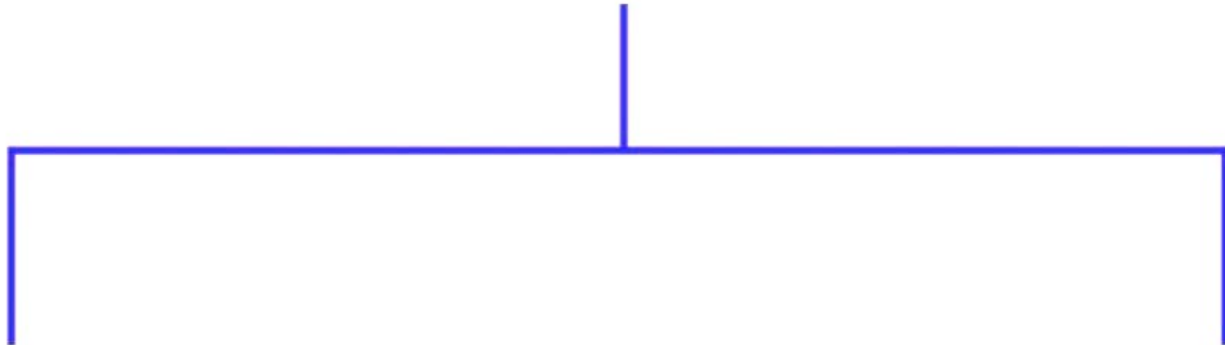


# HEAD TO DATABASES

( 1 MONTH )

Choose 1

## DATABASES



### Relational

- PostgreSQL
- MySQL
- MariaDB
- MS SQL
- Oracle

### Non -Relational

- MongoDB
- CouchDB
- Cassandra
- InfluxDB
- Firebase

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# DEVOPS

( 2 MONTHS )

## Learn Some CI/CD Tools

- Gitlab CI
- Jenkins
- Azure Devops
- Circle CI



## Cloud Providers

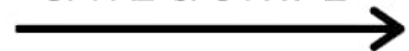
- AWS
- Google Clouds
- Azure , Linode
- Heroku, Digital Ocean



## What is & how to setup \_\_\_\_

- Reverse & Forward proxy
- Load Balancer
- Caching Server
- Firewall

SAVE & SWIPE





# BACKEND BURGER

## Containerization

- Docker
- rkt (Prefer Docker)
- LXC

## CI/CD Tools

- Jenkins
- Azure (any one)
- Circle CI

## VCS

- GIT
- GITHUB (any one)
- Gitlab
- Bit Bucket

## Frameworks

- Django
  - ExpressJS
  - Laravel
  - Ruby on Rails
- (any one)
- Depending on language you picked

## Choose a programming language

- JAVA
  - PYTHON
  - RUBY
  - PHP
  - C#
  - NODE JS
  - GO
  - RUST
- (any one)

Want this burger?

## Architectural patterns

- Microservices
- Monolithic
- Serverless
- CQRS
- SOA

## APIs

- REST
- JSON
- SOAP
- GSON

## Caching

- CDN
- Server Side
- Client-Side
- Redis

## Testing

- Integration Testing
- Unit Testing
- Functional Testing

## DATABASE

- RELATIONAL
  - NON RELATIONAL
    - PostgreSQL
    - MySQL
    - MS SQL
    - Oracle
    - MariaDB
  - MongoDB
  - RethinkDB
  - DynamoDB
  - CouchDB
  - GraphQL
- (any one in both)