Cod3r Program Overview and Syllabus

Learn, Code and Build...

Program Overview

Software Development is a field based mainly on these two pillars. Every software developer at one point of his/her career learnt one or more concepts on their own and also built stuff as collaborative projects with a team.

Despite some much contents on the web to learn software development, Code Newbies still find it hard to become competent developers and also find it difficult to get a coding partner to learn, code and build together.

Cod3r is a 9 months full time program that intends to train Africans software development by curating contents on the web to serve as learning resources, and create an environment where they can self-learn, peer-code and collaboratively build real-life projects to gain both hard and soft skills needed to become a world-class developer.

Our Web Development Syllabus

Part 1: Building Blocks of Web Development
HTML5

- HTML Syntax
- HTML Media
- HTML Tables
- Forms
- API
- Pug

CSS3

- CSS Basics
- The Box Model
- Floats and Positioning
- FlexBox
- Grids
- CSS Animation

Part 2: Advanced CSS and Design

Responsive Design and CSS Frameworks

Responsive Design
Media Queries
Bootstrap

CSS Preprocessor

LESS Fundamentals
Working with LESS

Fundamental Design and UX

Introduction to Design and UX
How to build great UI
Using Figma

Part 3: Programming Fundamental Courses (Mar 2 - Mar 16)

Git and Version Control

How to use GIT
GitHub Fundamentals
GIT Commands
How to collaborate on repository

Programming Basics

Understanding types of programming
Data structure types
Understanding OOP Programming

Part4: JavaScript

Javascript and DOM

Javascript Basics
ES6 Functions
Javascript DOM
Event Listeners
DOM Animations

Vanilla JS

Building web apps with Vanilla JS
Mastering Javascript

Learning Vue

Vue Framework fundamentals
Build single page web apps with Vue
Build robust web app using Vue

Learning React

React Framework fundamentals
Build single page web apps with React
Build robust web app using React

Asynchronous Javascript

Learning AJAX
AJAX with XHR
AJAX with jQuery
AJAX with Fetch
JSON

Learning jQuery

jQuery Basics, the DOM and Selectors
jQuery DOM Manipulation
Event Listeners with jQuery

Part 5: Backend Development

Backend with Node.Js
MongoDB

Daily Schedule (9AM - 4PM GMT +1) (Monday - Thursday)

Call - up meeting with the team on Zoom	9:00 - 9:30am
Content Absorption	9:30 - 11:30am
Break	11:30 - 12:00pm
Interaction on Slack about the daily task	12:00 - 12:30pm
Daily Task Development	12:30 - 3:30pm
Closing Meeting	3:30 - 4:00pm

Daily Schedule (9AM - 3PM GMT +1) (Friday)

Call - up meeting with the team on Zoom	9:00 - 9:30am
Content Absorption	9:30 - 11:30am
Break	11:30 - 12:00pm
Interaction on Slack about the code review	12:00 - 12:30pm
Code Review	12:30 - 1:30pm
Game	1:30 - 2:30 pm
Closing Meeting and task poll post	2:30 - 3:00pm