

Code Circle 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.

Code Circle is a 9 months full time program that intends to train Africans software development by curating content 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: Programming Fundamental Courses

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

Part 2: Building Blocks of Web Development

HTML5

- HTML Syntax
- HTML Media
- HTML Tables
- Forms
- 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

- Sass Fundamentals
- Working with Sass

Fundamental Design and UX

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

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 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
- Express.js
- MERN Stack

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 - 12:10pm
Daily Task Development	12:10 - 3:40pm
Closing Meeting	3:40 - 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