

Frontend Development Curriculum

Course Objective.

The goal of the frontend development course is to give you all the skill sets you will need to build the interface of professional, scalable and modern software and web pages and collaborate with others in achieving related tasks.

Technologies.

- HTML
- CSS
- JavaScript
- Git & Github
- React
- Web Hosting

Duration: 14 weeks.

Time:

- Week days: 9:30am – 1:30pm (3 days a week)
- Weekend: 10am – 4pm (Saturday & Sunday)



Curriculum

Section 1: Getting started with web development, Deep drive in basic web design languages: HTML & CSS.

First Week: Understanding Web Development, Environment Setup & Introduction to HTML

- Introduction to Web Development
- Setting up the development workspace
- Introduction to HTML
- Understanding HTML Tags
- Doing more with HTML attributes: displaying images on the web page
- Understanding the hyperlinks
- Basic Styling with Inline CSS
- First set of HTML Tasks
- Creating tables on web page

Second Week: HTML Continues

- Creating order and unordered lists
- Understanding elements display types
- Embedding third party web pages and resources with iframes
- Writing special characters with HTML entities
- Second set of HTML Tasks
- Deep drive in Web Forms
- HTML Graphics: Creating graphics with SVG
- Working with Medias: videos and Audios
- HTML Project 1 & Review

Third Week: HTML Project and Introduction to CSS

- HTML Project 2 & Review

- Introduction to CSS
- Understanding different Color format
- Changing elements backgrounds
- Doing more with borders
- Understanding padding and margin
- Modifying Texts and Fonts
- CSS Display & Visibility
- CSS Project 1

Fourth Week: HTML Project and Introduction to CSS

- Controlling elements positions on web page
- Selecting elements more dynamically
- Managing content overflow
- Floating block elements for positioning
- Doing more with CSS pseudo classes
- Creating virtual elements with Pseudo elements
- CSS Project 2

Section 2: Advanced CSS, Introduction to Programming, JavaScript Fundamentals.

Fifth Week: CSS Continues, Introducing CSS 3

- Styling Navigation Bars and Creating dropdowns
- Selecting more dynamically with attributes
- Styling Web Forms with CSS
- CSS Project 3
- Introducing CSS3: Advanced CSS Background
- Using Image as elements border
- Adding multiple background colour with gradients
- Using third party fonts from the web
- Improving experience with transitions
- Working with Animations

Sixth Week: CSS3 Continues

- Displaying additional information with custom tooltips
- Modifying images look with filters

- Dividing text contents to multiple Columns
- Arranging block elements the professional way with flexbox and grid
- Building responsive web pages with Media queries
- Reusing components with CSS Variables
- CSS Project 4 & 5 and Reviews

Seventh Week: Introduction to Programming, JavaScript Basics

- Introduction to Programming
- Getting Started with JavaScript
- Using Operators for programming operations
- Understanding different data types
- Working with JavaScript Strings
- JavaScript Challenge 1
- Working with Numbers
- Developing Programs with Conditions
- Creating Reusable code with Functions

Eight Week: JavaScript Continues, Document Object Model

- Keeping similar data dynamically with arrays
- JavaScript Challenge 2
- Tracking data with Objects
- Working with Dates
- Running programs multiple times with loops
- JavaScript Challenge 3
- Creating Objects creators with Constructor Functions
- Selecting Document elements for JavaScript Operations
- Modifying elements content and value
- JavaScript Challenge 4



Section 3: JavaScript Conclusion, Tracking code version with Git and keeping codebase & collaboration on Github, Web Hosting, React Fundamentals.

Nineth Week: DOM Conclusion, Working with BOM

- Listening to events
- Traversing the elements Nodes
- Elements Creation and deletion
- JavaScript Challenge 5
- Handling screen sizes with JS
- Managing browser location and history
- JavaScript Popup alerts
- Doing more with JavaScript Timers
- JavaScript Challenge 6
- Using document cookie for temporal storage
- Storing data in the browser with Storage objects

Tenth Week: , JavaScript Promise and call backs, JavaScript Conclusion, JavaScript API, Frontend Projects

- Understanding Promises and callbacks
- Consuming third party data with API
- JavaScript Challenge 7
- JavaScript Projects 1 & 2
- Projects Review

Eleventh Week: JavaScript Projects, Git & Github

- JavaScript Project 2 & Review
- Why Git
- Using Git commands to manage updates on codebase
- Keeping codes and Collaboration on Github
- Web Hosting

Twelfth Week: React Fundamentals

- Why React?
- Setting up React environment
- React Basics
- Introducing JSX
- Elements Rendering
- Understanding the component types and props
- Getting started with Hooks

- Updating data with states
- Handling events
- Understanding Forms.

Section 4: React: Using third party Plugins, Frontend Projects, Going forward as a frontend developer

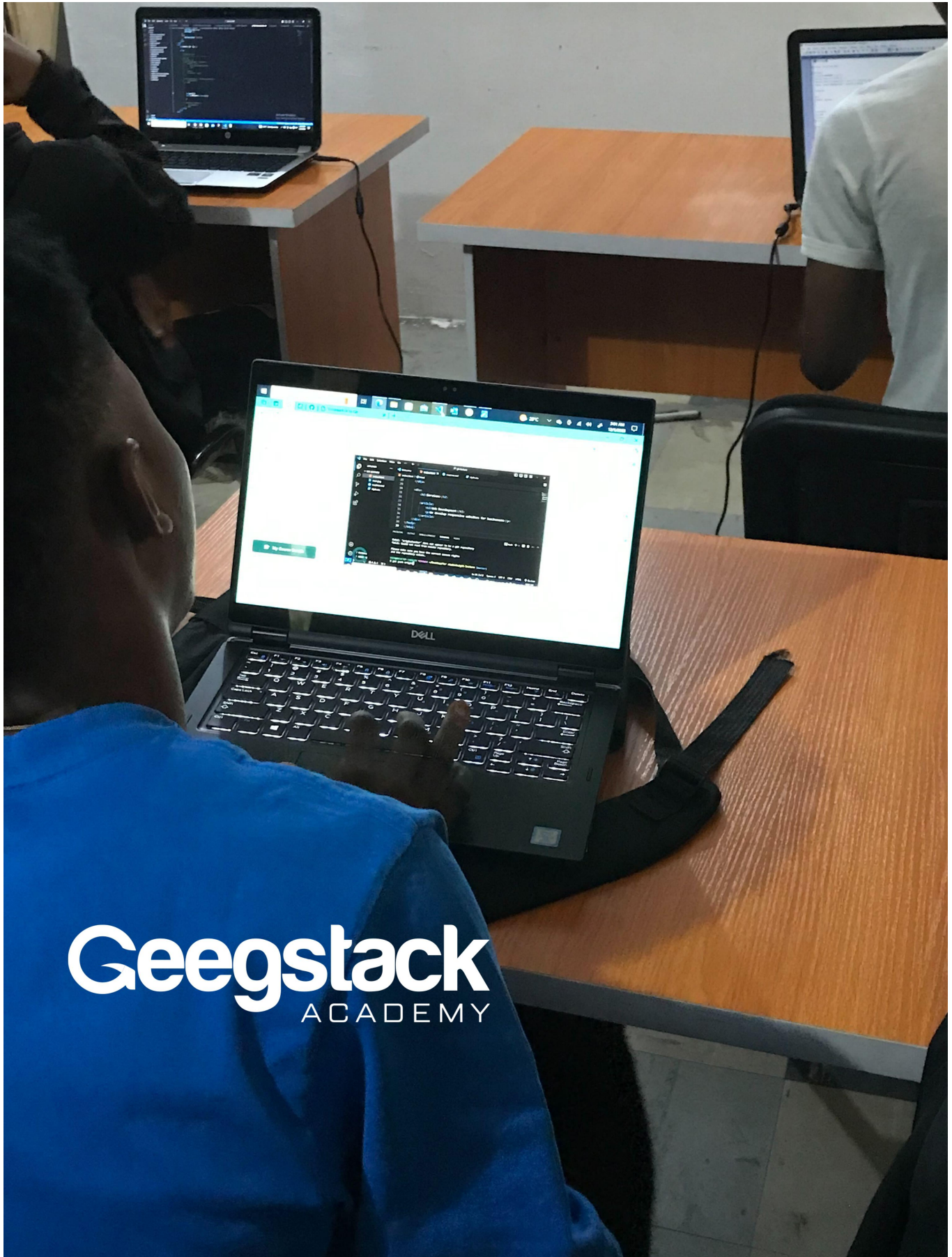
Thirteenth Week: React Conclusion, Projects

- Rendering elements on Conditions
- React Styling
- Using React Router to navigate
- Consuming third-party data through API
- Production Builds & Hosting
- React Projects 1
- Project review

Fourteenth Week: React Project 2, Conclusions

- React Project 2
- Project review
- Frontend Advanced Resources & Projects reference
- How to independently learn any technology quickly
- Seminar on landing the first paid job or project
- Going forward as a front end developer

CURRICULUM ENDS.



Geegstack
ACADEMY

Other Benefits:

- Minimum of 10 practical projects
- Monthly Data Subscription throughout the program
- Mentorship until first paid job

Program Cost

Learning mode	Cost
Boarding & Internship	NGN300,000
Boarding	NGN240,000
Week days	NGN160,000
Weekends	NGN145,000
Online	NGN125,000

Payment Method

Transfer to:

Account Number: **4091698613**

Bank: **Polaris Bank**

Account Name: **Geegstack Academy of Software Engineering Ltd.**

For More Enquiry, Call or WhatsApp:

08050885112

or

08126430670