



COURSE OUTLINE FOR FULL STACK WEB DEVELOPMENT TRAINING

About The Course

This 8 -weeks (12 weeks for weekend classes) program affords participating students with a plethora of web development skills, enabling them to build full-stack web applications. Students graduate with a solid understanding of the fundamentals of programming, with experience in specific languages and frameworks that are currently in use in today's IT world.

The curriculum is specifically crafted to prepare our students for a career in IT, students graduate with a rich portfolio capable of landing them their dream career jobs.

By the end of this program, students should be able to:

- Design and layout responsive web applications using different layout techniques.
- Build secure full-stack apps in relation to common design patterns and structures.
- Model, store and perform CRUD functions in MongoDB.
- Develop full-stack applications using JavaScript and NodeJS.
- Consume and integrate third-party RESTful APIs in an application.
- Deploy applications to the web using cloud-based hosting.
- Clearly document and present the projects they've built.

Course Outline

- **FRONT END DEVELOPMENT**
 - ❖ How the Internet Works.
 - ❖ Using the PowerShell & Navigating the Filesystem.
 - ❖ HTML5
 - ❖ Developer Tools
 - ❖ Text Editors
 - ❖ CSS Styling
 - ❖ CSS Box Model & Positioning
 - ❖ Web Typography
 - ❖ Bootstrap
 - ❖ SASS
 - ❖ JavaScript Data Types, Objects, and Functions
 - ❖ JavaScript Control Flow
 - ❖ Debugging JavaScript
 - ❖ DOM Manipulation & Events
 - ❖ Git and Github
 - ❖ WebPack
 - ❖ JavaScript Scope
 - ❖ CSS Pre-processors
 - ❖ Responsive Web Design

- **REACT JAVASCRIPT LIBRARY**

- ❖ ReactDOM & JSX
- ❖ Functional Components
- ❖ Styling React Components
- ❖ Props ▪ Mapping Components
- ❖ Class-based Components
- ❖ State
- ❖ Handling Events in React
- ❖ Lifecycle Methods
- ❖ Conditional Rendering
- ❖ Redux
- ❖ Fetching data from an API
- ❖ Forms
- ❖ Container/Component Architecture
- ❖ Writing Modern React Apps
- ❖ Setup Development and Environment

- **BACKEND DEVELOPMENT**

- ❖ Introduction to NodeJS
- ❖ Setup Development and Environment
- ❖ NodeJS Modules
- ❖ Node Package Manager (NPM)
- ❖ Creating Web Server
- ❖ Express JS
- ❖ Routing & Middleware
- ❖ Accessing Responses
- ❖ Controllers
- ❖ URL Generation
- ❖ Request Data
- ❖ Form and Form Validation
- ❖ MongoDB
- ❖ Schema Builder & Mongoose
- ❖ Authentication

- **THE MERN STACK FINAL PROJECT**

- ❖ Students build a usable portfolio product
- ❖ They apply skills they've learned in previous units
- ❖ Each student deploy his/her application online so it's publicly.

Methodology

To ensure that participants are able to learn, retain, and transfer their learning, thereby reshaping the forgetting curve and dramatically enhance retention, this course will be delivered with:

- Pragmatic Pre-Training engagement Sessions to prime the delegates
- Classroom Hands-on training
- Followed by post Training engagements.

What Practical Skillset can I Expect to have after completion of the Course

By the end of the course, you will have gained practice in the most used web-based programming language – JavaScript. You'll have built several fullstack applications of varying complexity, and have experience working with a team in a development environment.

You'll gain confidence in tackling new technologies in an ever-changing field. You'll have gained foundational skill in many disciplines that touch web development – managing complex data sets, securing your applications with encrypted passwords, and testing and deploying your applications to prepare them to scale.

What does Success in this program look like?

To get the most out of this course, you have to be willing to fully immerse yourself (get it?) in the classroom environment. This means actively engaging with your instructors, classmates, and career coach, as well as taking every opportunity to apply your new skills toward real-life projects.

We'll help guide you through the entire process, but in order to succeed you'll need to completely commit to your work and continuously push yourself.

Should I Come with Anything?

Yes, a laptop is required (either Mac or PC) with a minimum of 4GB RAM with a storage capacity of at least 250GB. The course will walk you through installing the necessary free software.

At least, you'll require basic secondary school mathematics, but no previous programming language experience is required.

Course Fee

Participant Fee covers Tuition, Course materials, Brunch, E-Books, Videos and manuals with Certificate of Participation.

SPECIAL DISCOUNT (SAVE UP TO N5,000 FOR GROUP & EARLY BIRD REGISTRATION ON/BEFORE 2 WEEKS TO COMMENCEMENT OF TRAINING)

CLASS IS FULLY HANDS-ON, PARTICIPANTS ARE TO COME TO CLASS WITH THEIR LAPTOPS

Certificate of Participation:

Certificate will be awarded to participants at successful completion of all modules.

Schedule

DATE: Call the Hotlines

(Saturdays: 10am – 6pm)

Weekdays : Mondays and Wednesdays 10am – 4pm

VENUE: CharisIntelligence Conference Room | **Suite 11, plot 8, Adewunmi Adebimpe Drive, Lekki Phase 1, Lagos.**

Account details

Bank – **UBA**

Account Name: **CHARISINTELLIGENCE**

Account Number: **2125393834**

This training can also be facilitated as in house for your company, do contact us to send a proposal.

HELP DESK:

Call 08137730189 or **08105519637**

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CharisIntelligence is an Artificial Intelligence and Digital Technological Innovative-focused firm, with RC Number 2823754 that helps individuals and firms to leverage technology to save cost,time and increase profit.

We simplify your business process and increase performance in all we do using technology.

We **guarantee** you a highly customized and budget friendly training program & look forward to a mutually rewarding partnership with you. Our team comprises of experienced and skillful personnel who are enthusiastic about what we do. As such we create memorable experience for our respective client.

Thank you as we await you in our training to come improve your skills.