

Full Stack Web Development By The Industrial Experts

Course Overview

Full stack web development refers to the process of building a web application or website that encompasses both the client-side and server-side components. It involves working with various technologies and frameworks to create a fully functional and interactive web application. Here is an overview of the main components and technologies involved in full stack web development:

Front-End Development:

Front-end development focuses on the user interface and user experience of a web application. Key technologies and frameworks used in front-end development include:

- **HTML (Hypertext Markup Language):** It provides the structure and content of web pages.
- **CSS (Cascading Style Sheets):** It is used to style and visually enhance the HTML elements.
- **JavaScript:** It is a programming language that enables interactivity and dynamic behavior on the client side.
- **Frameworks and libraries:** Popular choices include React, Angular, and Vue.js, which provide powerful tools for building interactive UI components.

Back-End Development:

Back-end development deals with the server-side logic and data management of a web application. Key technologies and frameworks used in back-end development include:

- **Programming languages:** Common choices are JavaScript (Node.js), Python (Django, Flask), Ruby (Ruby on Rails), and PHP (Laravel).
- **Web servers:** Apache and Nginx are commonly used to handle HTTP requests and serve web pages.
- **Databases:** Relational databases like MySQL and PostgreSQL, or NoSQL databases like MongoDB, are used to store and manage data.
- **APIs (Application Programming Interfaces):** APIs are used to facilitate communication between different software components or external services.

Database Management:

Full stack developers need to be familiar with database management systems (DBMS) and the principles of data modeling. This includes:

- Creating database schemas and tables.
- Writing queries to retrieve, manipulate, and store data.
- Optimizing database performance and ensuring data integrity.

It's worth noting that full stack development is a broad field, and the specific technologies and frameworks used can vary depending on the project requirements and personal preferences. Additionally, as technology evolves, new tools and frameworks emerge, so staying updated with the latest trends is crucial for full stack web developers.

Pre-Requisites

- **HTML and CSS:** Having a solid grasp of HTML (Hypertext Markup Language) and CSS (Cascading Style Sheets) is essential for web development. HTML is used to structure the content of web pages, while CSS is used to style and layout those pages. These are the building blocks of web development.
- **JavaScript:** JavaScript is a programming language that enables interactivity and dynamic behavior on the client side. It's widely used in web development to create responsive and interactive web applications. Understanding JavaScript fundamentals like variables, functions, loops, and objects is crucial.
- **Responsive Design:** Responsive design refers to creating websites that adapt and display properly across various devices and screen sizes. It involves using techniques like media queries and flexible layouts to ensure a consistent user experience on desktops, tablets, and mobile devices.
- **Basic Programming Concepts:** Understanding core programming concepts such as variables, data types, control structures (e.g., conditionals, loops), and functions is beneficial. This knowledge will help you grasp programming languages and frameworks used in web development.
- **SQL and Databases:** Familiarity with SQL (Structured Query Language) and database concepts is important for back-end web development. Learn how to create and manipulate databases, write SQL queries to retrieve and modify data, and understand concepts like tables, relationships, and indexes.

Remember, while these pre-requisites are helpful, web development is a continuous learning process. It's important to start building projects and gaining hands-on experience as early as possible. Practice, experimentation, and continuous learning will help you become a proficient web developer.

Benefits of Learning Full Stack Web Development

Learning full stack web development offers several benefits that can enhance your career and provide you with valuable skills. Here are some key benefits of learning full stack web development:

- **Versatility:** Full stack web developers have the ability to work on both the client-side and server-side of web applications. This versatility allows you to handle various aspects of the development process, from creating user interfaces to managing databases and APIs. You can take on different roles within a development team or even work independently on projects.
- **Career Opportunities:** Full stack web development skills are highly sought after in the job market. Companies often value developers who can work on multiple layers of a web application, as it helps streamline development processes and reduces dependencies on specialized roles. With full stack skills, you can explore various job opportunities, from startups to large organizations, or even consider freelancing.
- **Independence and Flexibility:** Being proficient in full stack development provides you with the freedom to work on your own projects or start your own web development business. You can handle end-to-end development, from conceptualization and design to implementation and deployment. This level of independence gives you more control over your work and allows you to turn your ideas into reality.
- **Problem Solving:** Full stack web development requires you to tackle a wide range of challenges. You'll encounter issues related to user experience, performance optimization, data management, security, and more. By learning full stack development, you develop problem-solving skills that help you identify, analyze, and resolve issues at different levels of the application stack.
- **Cost Efficiency for Small Projects:** For smaller projects or startups with limited resources, having a full stack developer who can handle all aspects of web development can be cost-effective. It eliminates the need to hire multiple specialized developers, reducing development costs and streamlining the project timeline.

Overall, learning full stack web development equips you with a well-rounded skill set and opens up numerous career opportunities. It provides you with the knowledge and flexibility to work on a wide range of projects and contribute effectively throughout the entire web development process.

Related Job Roles

In full stack web development, there are several related job roles that specialize in different aspects of the development process. Here are some common job roles related to full stack web development:

- **Full Stack Developer:** A full stack developer is proficient in both front-end and back-end technologies. They are capable of working on all layers of a web application, including user interface design, server-side development, database management, and integration of APIs. Full stack developers have a holistic understanding of the development process and can handle various tasks throughout the project.
- **Front-End Developer:** Front-end developers focus on creating the user-facing components of a web application. They specialize in HTML, CSS, and JavaScript to build intuitive and visually appealing interfaces. Front-end developers collaborate closely with designers to implement user interface designs and ensure responsive and accessible web applications.
- **Back-End Developer:** Back-end developers specialize in server-side programming and database management. They work with programming languages like JavaScript (Node.js), Python, Ruby, or PHP to build the logic and functionality behind web applications. Back-end developers handle tasks such as server configuration, API development, database integration, and system architecture.

- **UI/UX Designer:** UI/UX (User Interface/User Experience) designers focus on creating engaging and intuitive user experiences. They design the visual elements, layout, and interactions of a web application to enhance usability and optimize user satisfaction. UI/UX designers collaborate closely with front-end developers to ensure their designs are implemented accurately.
- **Database Administrator (DBA):** Database administrators are responsible for managing databases that store the application's data. They handle tasks such as database design, optimization, security, and maintenance. DBAs work closely with back-end developers to ensure data integrity, efficient data retrieval, and effective management of databases.

These are just a few examples of job roles related to full stack web development. The specific job titles and responsibilities may vary depending on the organization and project requirements. It's common for professionals in these roles to collaborate and work together to create robust and successful web applications.

Available Training Options

- Online/Offline
- Weekdays Batches
- Weekend Batches
- Course - Duration: 90 Days
- Mode of Training - Online - Live Online Classes
- Daily 1Hr(Need to have a laptop or Computer with Good Internet)

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Topics we cover:

1. HTML 5
2. CSS
3. JavaScript
4. Jquery
5. Bootstrap
6. SQL
7. PHP

- month
- number
- password
- radio
- reset
- search
- submit
- text

Introduction to HTML

- Understanding about Browser
- Domain
- Host
- HTML Structure

TAG'S in HTML

- heading
- font
- formating
- paragraph

List in HTML

- ol and it's type
- ul and it's type

Table and it's properties

- table
- tr
- th
- td

Input Elements

- checkbox
- color
- date
- email
- file
- hidden
- image
- text

CSS - Introduction

- CSS - Syntax
- CSS - Colors
- CSS - Backgrounds
- CSS - Fonts
- CSS - Text
- CSS - Images
- CSS - Links
- CSS - Tables
- CSS - Borders
- CSS - Margins
- CSS - Lists
- CSS - Padding
- CSS - Positioning
- CSS - Layers
- CSS - Pseudo Classes
- CSS - Pseudo Elements
- CSS - Text Effects
- CSS - Rounded Corner
- CSS - Border Images
- CSS - Multi Background
- CSS - Color
- CSS - Gradients
- CSS - Shadow
- CSS - Text
- CSS - Box Sizing

Introduction to JavaScript

- What is Javascript
- JavaScript history
- Relation between JavaScript and ECMAScript
- Versions of JavaScript

JavaScript Core

- Syntax, Variables, Values, Data Types
- Syntax review
- Keywords
- Variable declaration
- Variable scope
- Block scope.
- Data Types
- Primitive values
- Reference values
- Expressions and Operators
- Expressions (arithmetic, relational, logical, assignment and others),

Control structures

- Flow control and conditionals
- Loops and iteration

Functions

- Defining functions
- Calling functions
- Functions as values
- Arguments and parameters
- Function scope
- Closures
- Arrow functions

Arrays

- Creating and populating Arrays
- Array methods
- Working with Arrays

JavaScript BOM

- Window Object
- History Object
- Navigator Object
- Screen Object

JavaScript DOM

- getElementById
- getElementsByName
- getElementsByTagName
- innerHTML property
- innerText property

jQuery

- jQuery Intro
- jQuery Get Started
- jQuery Syntax
- jQuery Selectors
- jQuery Events

jQuery Effects

- jQuery Hide/Show
- jQuery Fade
- jQuery Slide
- jQuery Animate
- jQuery stop()
- jQuery Callback
- jQuery Chaining

jQuery HTML

- jQuery Get
- jQuery Set
- jQuery Add
- jQuery Remove
- jQuery CSS Classes
- jQuery css()
- jQuery Dimensions

jQuery Traversing

- jQuery Traversing
- jQuery Ancestors
- jQuery Descendants
- jQuery Siblings
- jQuery Filtering

Bootstrap Introduction

- BS5 Containers
- BS5 Grid Basic
- BS5 Typography
- BS5 Colors
- BS5 Tables
- BS5 Images
- BS5 Jumbotron
- BS5 Alerts
- BS5 Buttons
- BS5 Button Groups
- BS5 Badges
- BS5 Progress Bars
- BS5 Spinners
- BS5 Pagination
- BS5 List Groups
- BS5 Cards
- BS5 Dropdowns
- BS5 Collapse
- BS5 Navs
- BS5 Navbar
- BS5 Carousel
- BS5 Modal
- BS5 Tooltip
- BS5 Popover
- BS5 Toast
- BS5 Scrollspy
- BS5 Offcanvas
- BS5 Utilities
- BS5 Dark Mode
- BS5 Flex
- BS5 Forms
- BS5 Grid System

SQL Introduction

- SQL Syntax
- SQL Select
- SQL Select Distinct
- SQL Where
- SQL And, Or, Not
- SQL Order By
- SQL Insert Into
- SQL Null Values
- SQL Update
- SQL Delete
- SQL Select Top
- SQL Min and Max
- SQL Count, Avg, Sum
- SQL Like
- SQL Wildcards
- SQL In
- SQL Between
- SQL Aliases
- SQL Joins
- SQL Inner Join
- SQL Left Join
- SQL Right Join
- SQL Full Join
- SQL Self Join
- SQL Union
- SQL Group By
- SQL Having
- SQL Exists
- SQL Any, All
- SQL Select Into
- SQL Insert Into Select
- SQL Case
- SQL Null Functions
- SQL Stored Procedures
- SQL Comments
- SQL Operators

PHP Introduction

- PHP Install
- PHP Syntax
- PHP Comments
- PHP Variables
- PHP Echo / Print
- PHP Data Types
- PHP Strings
- PHP Numbers
- PHP Math
- PHP Constants
- PHP Operators
- PHP If...Else...Elseif
- PHP Switch
- PHP Loops
- PHP Functions
- PHP Arrays

PHP OOP

- PHP OOP's
- PHP Classes/Objects
- PHP Constructor
- PHP Destructor
- PHP Access Modifiers
- PHP Inheritance
- PHP Constants
- PHP Abstract Classes
- PHP Interfaces
- PHP Traits
- PHP Static Methods
- PHP Static Properties
- PHP Namespaces
- PHP Iterables

MySQL Database

- MySQL Database
- MySQL Connect
- MySQL Create DB
- MySQL Create Table
- MySQL Insert Data
- MySQL Get Last ID
- MySQL Insert Multiple
- MySQL Prepared
- MySQL Select Data
- MySQL Where
- MySQL Order By
- MySQL Delete Data
- MySQL Update Data

For Registration/ Customization of Course / Course Fees

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Duration:	90 Days
Mode of Training:	Online
Weekdays:	Monday-Friday
Weekends:	Saturday and Sunday

Student Review

Arvind Raju

From : Oman

I've taken up the Advance Python & Arcpy classes from this institute with trainer Mrs. Roselynn is very knowledgeable and teaches the course topics with great detail. Everything was easy to understand and I was always helped with doubts until it was completely rectified. I would definitely recommend this Institute to anyone wanting to learn Python or any of the other courses they offer.

Ullash Ghosh

From : Kolkatta

Excellent teaching of Advance Python programming by experienced trainer. Flexible timings. It was an awesome experience.

Jahir Hussain

From : Qatar

Its Helped me to identify clear, be able next steps towards resolving my own workplace conflict and issues.

Ayeesha H

From : Bangalore

Great knowledge given by the mentor, Best training institution. Mam has explained all the topics very clearly.

Student Review

Vishnu vg From Kerala

My trainer, has a very good command over all the topics. She has explained each topic very clearly. We got a good understanding of all the concepts as she used to write programs daily for the real time scenarios. She make us practice during the classes. Overall I could say, you will be gaining good hands-on and understanding by end of the course

Eshawar Rao From Hubli Dharwad

Excellent Faculty, Excellent Knowledge about subject, madam gives Attention towards every individual student, Madam is having enough Patience in clearing all individual doubts, Overall Excellent training centre to learn and to grow.

Siddhi Kanekar From Pune

Best training institution. Mam has explained all the topics very clearly.
Thank you so much mam for being part of your institution.

Aghil Dev From Orisa

I happy to be a student of rose mam, as she was always present to help. My classes were good and helped me in understanding the concept. Thanks rose mam

Gaurav Chauhan

Position: GIS Analyst

Company:

Carifer Technologies Private Limited
Chennai

Salary: 13 LPA

Harisha

Position: GIS Analyst

Company:

GVS Technosoft Pvt. Ltd
Salary: 10 LPA

Ankit Hemnani

Position: Software Engineer .Net

Company:

Celtic System Pvt.Ltd
Salary: 7.5 LPA

Harish Vijayakumar

Position: Project-Assosiate

Company:

Cognizant Technology Solutions India
Private Limited
Salary: 12 LPA

KIRAN B

Qualification: MBA

Position: Business Head

Experience: 18 Years

His extensive experience in Operations Management, Client Acquisition, HR & Recruitment, and working with startups, he has demonstrated a track record of success across multiple industries and geographies. Starting from an executive level, he progressed to management positions, where he implemented process improvements to enhance efficiency, increase revenue, and drive growth. His vast network of colleges and training centers has significantly contributed to the development of robust recruitment and training pipelines. Moreover, he has successfully engaged with diverse clients.

NIKHIL S D

Qualification: BE Civil

Position: CAD Trainer (Civil)

Experience: 10 Years

Programing Skills: C,C++

2D And 3D Skills: AutoCad, 3D Max, Staad pro, Solid Works, Revit, Google Sketchup and ArcGIS CityEngine

Highly experienced CAD Civil Trainer with a demonstrated track record of success in delivering comprehensive training and instruction, specifically tailored for civil engineering applications. Committed to empowering learners with the necessary skills and knowledge to excel in their civil design and drafting projects.

RAMESH J

Qualification: BE Mech

Position: CAD CAM Trainer (Mech)

Experience: 6 Years

Programing Skills: C,C++,Python

2D And 3D Skills: AutoCad, Catia, Pro-e, Solid Edge, MatLab, Ansys, Solid Works,

Results-oriented CAD Mech Trainer with a decade of experience delivering exceptional training and instruction in 2D and 3D modeling software for mechanical engineering applications. Committed to equipping learners with the skills and knowledge needed to excel in mechanical design, simulation, and manufacturing.

ROSELEN S B

Qualification: MCA

Position: Programmer And Corporate Trainer

Experience: 12 Years

Programing Skills: Java, Python, AI, Machine Learning, Php, SQL, Full Stack

GIS Skill: Arcpy, ArcGIS JS API, ArcGIS Python API, PostGIS, Web AppBuilder, WebGIS

Highly experienced programming mentor with a strong background in various programming languages. With over 12 years of training experience, has successfully mentored more than 3000 students, dedicated to helping aspiring programmers and professionals acquire the necessary skills and knowledge to excel in their programming careers.

KAVITA H

Qualification: MSc.IT

Position: Programing Trainer

Experience: 10 Years

Programing Skills: C, C++, Java, MSSQL, MYSQL Server, C# and good knowledge in Servlets, JSP, EJB Worked on J2EE 1.4 Application Server

Kavita is a seasoned programming mentor and trainer with a decade of experience specializing in Java Servlets and MySQL. She has a strong passion for teaching and guiding individuals in mastering these technologies. kavita's in-depth knowledge and practical experience in Java Servlets and MySQL make her an ideal mentor for aspiring programmers looking to excel in web development

ANKIT H

Qualification: MSc.Geoinformatics

Position: GIS Trainer

Experience: 6 Years

GIS Skills: Arc GIS, Arc GIS Pro, QGIS, IGIS, Fusion X, Auto CAD, MS Office, Google Earth, Bhuvan Portal, Geo-Server, Arcgis online, Microstation

Programing Skills: HTML, CSS, Java script, ArcGIS API for Java script, .Net, Python
Ankit is a highly skilled GIS trainer. Has experience in ArcGIS, QGIS, PostGIS, remote sensing, and network analysis. His expertise lies in the field of spatial data analysis and geospatial technologies. He is passionate about sharing his knowledge and helping individuals develop proficiency in GIS applications for various industries.

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