



Full Stack Development With Devops

8 Months

With Placement
Guarantee in Mumbai

Dual Certification

**Interactive
Learning**





ABOUT US

LivetechINDIA team ensures simplifying complex technologies.

Today top most IT training institute in INDIA catering programs like Artificial Intelligence, Data Science, IOT and Software Development

- 25+ Corporate Clients
- 5000+ Students trained
- 100+ Institutes / Universities Associations

CORPORATE TRAININGS



SPJIMR (Top B-School)



Artificial Intelligence Training in Indian Railway

FULL STACK DEVELOPMENT

Concept

Concept



01

HTML

HTML (HyperText Markup Language) is the code that is used to structure a web page.



02

CSS/BOOTSTRAP

CSS represent the style and the appearance of content



03

JAVASCRIPT

JavaScript (JS) is a used by developers to make web pages interactive



04

REACT JS

React is the library for web and native user interfaces.



05

NODE JS

Node.js is an open source server environment. It allows you to run JavaScript on the server



06

EXPRESSJS

Express.js, or simply Express, is a back end web application framework for building RESTful APIs



07

SQL

SQL is used to communicate with a database.

DEVOPS MASTERY

Concept



**Linux & System
Administration**



**Version Control
(Git & GitHub)**



**Scripting &
Automation
(Bash, Python)**



**Continuous
Integration &
Deployment
(CI/CD)**



**Infrastructure
as Code
(Terraform,
Ansible)**



**Containerization
& Orchestration
(Docker,
Kubernetes)**

CLOUD COMPUTING Concept



**IT, Networking &
Cloud Foundations**



**Compute &
Storage (Core
AWS)**



**Storage,
Monitoring
& Scaling**



**Networking,
Security &
Databases**



**Advanced
Services &
Architecture**



**Architecture,
Security
& Migration**

Topics

FSD Syllabus

HTML

- Introduction to HTML, Basic Tags- Headings, Paragraph, pre, Comments, Hyperlink, image, Formatting, HTML Attributes, style Colors, font-size, text-align, Favicon
- CSS link Target attribute, list, Tables, Block and Inline Elements, iframe, classes and ids
- Form element and select, layout, Semantic Elements, Video, Audio
- Introduction to CSS -- Inline, Internal and External, CSS selectors, comments, color, background, Linear Gradients, opacity

CSS /Bootstrap

- CSS position property, Z- index, Overflow
- CSS Flex, pseudo-class, pseudo-elements, n-child selector
- CSS Grid, Animation, transitions, Transforms
- CSS Cms Units, Responsive- Mediaquery
- Introduction to Bootstrap, CDN link and Installation, Bootstrap- Components
- Bootstrap- Layout, Forms, Utilities

Javascript

- Introduction to JS, Variable, comments, Data Types, Operators, Type casting, Conditional Statements, Switch case
- Looping Statements, Data Structures
- JS - OOPs -- Inheritance, Encapsulation, getter and setter method, getter and setter method, JS Module, setInterval & setTimeout
- JS Destructuring Method and Map loop Method, Introduction to JSON, json method
- jQuery Effects, Hide, Show, JQuery Hide & Show Methods, slide Animation

React.JS

- Introduction to React js, Folder Structure In React
- React Components
- React Probs, JSX
- State In React, Rendering Elements
- React Destructuring And Event Handler
- React Event Listener Methods
- React Conditional Statements

Topics

Syllabus

React.JS

- Introduction to React js, Folder Structure In React
- React Components
- React Probs, JSX
- State In React, Rendering Elements
- React Destructuring And Event Handler
- React Event Listener Methods
- React Conditional Statements
- React Loop in JSX

Node JS

- Introduction to Node.js, Installation, Project setup, Variables, Functions
- Node js OOPs
- Creating Node.js Application
- Node.js - REPL Terminal
- Node.js - Package Manager(NPM), Callback Concept
- Node js Web Module, File System
- Node js File System, Promises
- Node js Event loops & Event Emitter
- Debug Node.js Application
- Node js Buffer & Stream

Express JS

- Introduction to Express JS, Environment setup, Create first App
- Express Routes
- Express URL Building, Http Methods, Routing
- Implementing MVC in Express(Express Generator), Express Templating
- Database Connectivity(Mongoose), Express Routes, Models, Schema, API Handling
- Express Middleware, Error Handling, Promises
- Express Cookies & Sessions, Express Body-parser, Cors
- Express Create Rest API (CRUD Operation),

Topics

Syllabus

SQL

- SQL Introduction Theory, Installation
- create Database, use database, create tables
- Drop tables, Insert data, Show data
- Data types, Build in functions–Numeric, String and Date time.

- Aggregate functions–Avg(), sum(), min(), max(), count().
- Order by clause, Group by clause, Distinct clause, Limit clause.
- Statement– Update, Delete, Alter
- Constraints–Primary key, Not Null, Unique, Check, Default, Foreign key

- Joins–Inner join, Left join, Right join, Full join.
- Excel connection
- Views, sub query
- Triggers–Before and After
- TCL Commands

IT, Networking & Cloud Foundations

- Networking basics, TCP/IP, HTTP, HTTPS, DNS, How internet works, Role of servers in cloud
- System administration fundamentals, Linux vs Windows server, Web servers: Apache, Nginx, IIS How applications run on servers
- What is Cloud Computing, Traditional IT vs Cloud, Cloud Characteristics, Cloud Deployment Models
- IaaS, PaaS, SaaS, Introduction to AWS, AWS Global Infrastructure (Regions & AZs)

Compute & Storage (Core AWS)

- AWS account setup, IAM intro, AWS Management Console, AWS CLI setup.
- EC2 concepts, AMI, instance types, Launch EC2, Public & private IP.
- Elastic Network Interfaces, EC2 security groups, EC2 using AWS CLI .
- EBS concepts, Volume types, Attach & detach volumes, Snapshots.

Storage, Monitoring & Scaling

- EBS using CLI, Use cases: EBS vs instance storage, Storage design
- Amazon S3, Buckets & objects, Storage classes, Data consistency
- S3 security, Bucket policies, S3 using CL
- CloudWatch, Metrics, logs, alarms
CloudWatch using CLI

**Storage,
Monitoring &
Scaling**

- Elastic Load Balancing , ALB, NLB, CLB , Real-world load balancing
- Auto Scaling, Scaling policies, ELB + Auto Scaling architecture
- High Availability design, Fault tolerance , Multi-AZ architecture
- Amazon VPC , Subnets ,Route tables ,Internet & NAT gateways

**Networking,
Security &
Databases**

- Security Groups vs NACL, VPC architecture
Route 53 (DNS & routing)
- Amazon VPC ,Subnets ,Route tables,Internet & NAT gateways
- Security Groups vs NACL ,VPC architecture, Route 53 (DNS & routing)
- IAM users, groups, roles , Best practices ,Password & role policies

**Advanced
Services &
Architecture**

- Amazon RDS ,DB engines, Read replicas, RDS architecture
- Connect RDS ,Backup & replication, RDS using CLI
- DynamoDB ,NoSQL vs SQL, DynamoDB use cases
- CloudFront, Glacier , CloudTrail , Audit & compliance

TOPIC

Syllabus

Advanced Services & Architecture

- SQS, SNS ,Decoupled architecture , Messaging systems
- Elastic Beanstalk ,OpsWorks, Amazon Redshift
- CloudFormation, Snowball ,Storage Gateway ,Direct Connect
- AWS Well-Architected Framework ,Reliability , Performance , AWS Pricing models (On-Demand, Reserved, Spot), Cost optimization

Architecture, Security & Migration

- Security best practices, Encryption, Shared Responsibility Model
- Backup & disaster recovery , Multi-region design ,Failover strategies
- Cloud migration strategies, Lift & shift , Re-platforming
- IAM users, groups, roles , Best practices ,Password & role policies

DEVOPS SYLLABUS

Module 1: Fundamentals (Week 1)

Cloud Computing Basics:

- IaaS
- PaaS
- SaaS
- Cloud service models
- Regions & Availability Zones

Linux Essentials:

- Commands
- Shell scripting
- File system
- Package management

Module 2: AWS Cloud (Weeks 2–4)

Compute

- EC2 (Instances, AMIs, Key Pairs, Elastic IPs)
- EBS (Volumes, Snapshots)
- Auto Scaling

Storage

- S3 (Buckets, Versioning, Lifecycle policies)
- Glacier (Archival storage)

Databases

- RDS (MySQL, PostgreSQL)
- DynamoDB (NoSQL basics)

Networking

- VPC (CIDR, Subnets, Route Tables)
- Internet Gateways & NAT
- Security Groups, NACLs

Other Core Services

- Load Balancing (ELB)
- IAM (Users, Roles, MFA, Policies)
- CloudFormation (Infrastructure as Code)
- CloudWatch (Monitoring, Alarms, Logs)

SYLLABUS

Module 3: DevOps Fundamentals (Week 5)

DevOps & SDLC

- Principles,
- Agile vs DevOps

Version Control

- Git & GitHub

Build Tools

Maven

- build lifecycle
- dependencies

Module 4: DevOps Tools (Weeks 6–11)

Continuous Integration / Delivery

- Jenkins (Jobs, Pipelines, Plugins, Webhooks)

Containerization

- Docker (Images, Containers, Dockerfiles, Docker Compose)

Configuration Management

- Ansible (Playbooks, Roles, Inventory)

Container Orchestration

- Kubernetes (Pods, Deployments, Services, Ingress, ConfigMaps, Secrets)

Infrastructure Automation

- Terraform (Providers, State, Modules, Provisioners)

SYLLABUS

Module 5: Advanced & Projects (Week 12)

AWS Lambda (Serverless)

- CI/CD & Deployment (SAM, Terraform, Blue/Green)
- Triggers (API Gateway, S3, SQS)
- Config (Memory, Timeout, Env Vars)
- Security (IAM, VPC)
- Cost (Monitor & Optimize)

Monitoring & Logging

- Centralized Logs (CloudWatch, ELK)
- Structured Logging (JSON, Metadata)
- Metrics & Tracing (CloudWatch, X-Ray)
- Alerts (Alarms, SNS/Slack)
- Log Analysis (Insights, Dashboards)

Final Project: Build an End- to-End CI/CD Pipeline

- **Git (Version Control)**
- **Jenkins (Automation)**
- **Docker (Containerization)**
- **Kubernetes (Deployment on AWS)**

Final Project: Full Stack Application

- Frontend: [React.js](#)
- Backend: Spring Boot / [Node.js](#)
- Database: MySQL / MongoDB
- Hosting & Deployment Introduction (GitHub Pages, Netlify, Heroku)
- Git & GitHub Basics (Version Control, Branching, Push, Pull)

PLACEMENT



100% PLACEMENT ASSURANCE PROGRAM

We are confident that this course delivers on its promises. However, we want you to experience the same. Accordingly, we are making this bold promise, not given by anyone else in the industry

PATHWAY

1

PROJECT PREPARATION AND LIVE PROJECT PRESENTATION

2

RESUME BUILDING

3

INTERVIEW PREPARATION

4

INTERVIEW OPPORTUNITIES TILL PLACEMENT

5

GET PLACED !!!

LivetechINDIA

PLACED STUDENTS



Geetesh Sarang
Got Placed at **TATA AIG**



Chetan More
Got Placed at **Diacto**



Neha Patil
Got Placed at **Capgemini**



Shweta Rane
Got Placed at **Larsen & Toubro Infotech**



Ankit Singh
Got Placed at **Vistaar Digital Communication Pvt Ltd**



Priyanka
Got Placed at **Violet Infosystem**



Loganathan
Got Placed at **Larsen & Toubro**



Nishant Raut
Got Placed at **Archstore**



Saloni Shinde
Got Placed at **Datacloudgaze Pvt Ltd**

PLACEMENT PARTNERS



GET YOURSELF CERTIFIED



CERTIFICATE OF COMPLETION

YOUR NAME

On successful completion of
**"Full stack development with
Devops"** training.

Student Id: XXXXXXXXXXX

A handwritten signature in blue ink, appearing to read "Swapnil Darekar".

Swapnil Darekar
Centre Head

Date of Completion

ISO

**9001:2015 &
29990:2010**
CERTIFIED INSTITUTION

