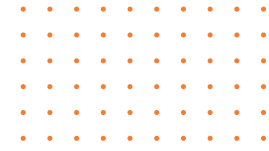


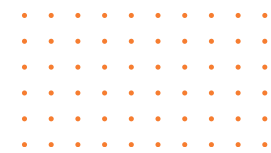


Tech Learniversity



JOB GUARANTEED PROGRAM

QUALITY EDUCATION FROM QUALITY PEOPLE



PROGRAM NAME

FULL STACK JAVA DEVELOPER PROGRAM

QUALITY EDUCATION FROM QUALITY PEOPLE





PROGRAM OVERVIEW

The Full Stack Java Developer Program by Tech Learniversity is designed to equip learners with the skills necessary to excel in both frontend and backend development, covering essential technologies, databases, DevOps practices, and cloud deployment.

Duration

140 Hours



SYLLABUS

MODULE 1. FRONTEND DEVELOPMENT (HTML, CSS, JAVASCRIPT)

1.1 HTML (HyperText Markup Language)

- HTML5 Structure & Elements
- Forms and Form Validation
- Semantic Elements
- Audio, Video, and SVG
-

1.2 CSS (Cascading Style Sheets)

- CSS Selectors & Properties
- Box Model & Positioning
- Flexbox and Grid Layout
- CSS Transitions & Animations
- Responsive Design (Media Queries)
- Bootstrap 5 Framework



SYLLABUS

MODULE 1. FRONTEND DEVELOPMENT (HTML, CSS, JAVASCRIPT)

1.3 JavaScript (ES6 & Beyond)

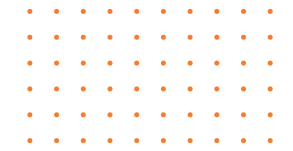
- JavaScript Basics: Variables, Data Types, Operators
- Functions, Arrays, Loops, and Conditional Statements
- DOM Manipulation
- Event Handling
- Asynchronous JavaScript (Callbacks, Promises, Async/Await)
- LocalStorage & SessionStorage
- Fetch API & Axios for HTTP Requests



SYLLABUS

MODULE 2. FRONTEND FRAMEWORK - REACT.JS

- Introduction to React.js
- JSX & Virtual DOM
- Components & Props
- State & Lifecycle Methods
- React Hooks (useState, useEffect, useContext)
- React Router (Navigation & Routing)
- Redux (State Management)
- API Integration in React
- React Testing (Jest, React Testing Library)





SYLLABUS

MODULE 3. CORE JAVA (OBJECT-ORIENTED PROGRAMMING)

- Java Basics: Data Types, Operators, Variables
- Control Statements (If-Else, Loops, Switch)
- Arrays & Strings
- Object-Oriented Programming (OOPs)
 - Classes & Objects
 - Constructors & Methods
 - Inheritance & Polymorphism
 - Abstraction & Encapsulation
 - Interfaces & Abstract Classes
- Exception Handling
- Collections Framework (List, Set, Map, Queue)
- File Handling in Java
- Multithreading & Concurrency
- Lambda Expressions & Stream API

A person in a dark blue suit and a striped tie is pointing their right hand towards a laptop screen. The laptop screen displays various business charts, including a bar chart and a pie chart. The person's hand is open, palm facing up, as if presenting or explaining something. The background is a plain, light-colored wall.

SYLLABUS

MODULE 4. BACKEND DEVELOPMENT WITH SPRING BOOT

4.1 Spring Framework & Spring Boot

- Introduction to Spring Boot
- Spring Boot Architecture
- Dependency Injection & Inversion of Control (IoC)
- Spring Boot Annotations
- Spring Boot REST APIs
- Handling HTTP Requests & Responses
- Exception Handling in Spring Boot

4.2 Spring Boot with Database

- JDBC vs JPA vs Hibernate
- Spring Data JPA with Hibernate
- Creating & Managing Entities
- CRUD Operations with JPA
- Querying Data with JPQL
- Using Spring Boot with MySQL/PostgreSQL



SYLLABUS

MODULE 4. BACKEND DEVELOPMENT WITH SPRING BOOT

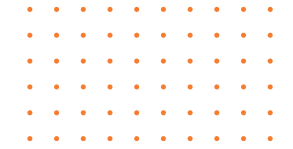
4.3 RESTful Web Services

- REST API Basics & Principles
- Building RESTful Services in Spring Boot
- Consuming REST APIs with Postman
- Authentication & Authorization in REST APIs
- Role-Based Access Control (RBAC)



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MODULE 5. DATABASE MANAGEMENT



5.1 SQL & Relational Databases

- Introduction to Databases
- SQL Commands (DDL, DML, DCL, TCL)
- Joins, Group By, Aggregate Functions
- Stored Procedures & Triggers
- Indexing & Optimization

5.2 NoSQL Database (MongoDB)

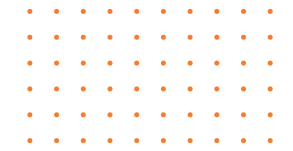
- Introduction to NoSQL
- Installing & Using MongoDB
- CRUD Operations in MongoDB
- Querying Data in MongoDB
- MongoDB with Java Spring Boot



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MODULE 6. SECURITY & AUTHENTICATION

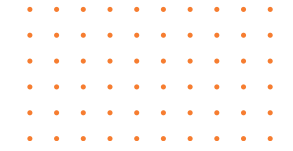
- Introduction to Web Security
- User Authentication using Spring Security
- Role-Based Authorization
- JWT (JSON Web Tokens) Authentication
- OAuth2 Implementation
- Password Hashing with BCrypt





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MODULE 7. DEVOPS & CLOUD DEPLOYMENT



7.1 Git & GitHub

- Version Control Basics
- Git Commands (Commit, Push, Pull, Merge)
- GitHub Repositories & Branching
- CI/CD Pipelines

7.2 Docker & Kubernetes

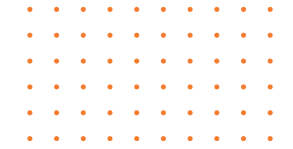
- Introduction to Docker
- Dockerizing a Spring Boot App
- Introduction to Kubernetes

7.3 Cloud Deployment (AWS/GCP/Azure)

- Deploying Spring Boot App on AWS EC2
 - AWS S3 for File Storage
 - Database Deployment on AWS RDS
- 



SYLLABUS



MODULE 8. MICROSERVICES WITH SPRING BOOT

- Introduction to Microservices Architecture
- Monolithic vs Microservices
- Spring Cloud & Netflix Eureka
- API Gateway (Zuul, Spring Cloud Gateway)
- Inter-Service Communication (Feign Client)
- Circuit Breaker Pattern (Resilience4j)
- Event-Driven Architecture (Apache Kafka)

MODULE 9. TESTING & DEBUGGING

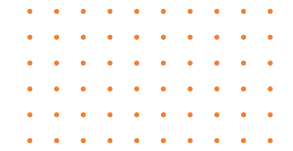
- Unit Testing with JUnit & Mockito
- API Testing with Postman
- Integration Testing in Spring Boot
- Performance Testing with JMeter





SYLLABUS

MODULE 10. PROJECT & INTERVIEW PREPARATION



- Full-Stack Java Project Implementation
- Debugging & Code Optimization
- Best Practices for Java Development
- Java Full Stack Interview Questions

LIVE PROJECT

Project 1: E-Commerce Application

- User Authentication (Spring Security + JWT)
- Product Catalog Management (React + Spring Boot + MySQL)
- Shopping Cart & Order Processing
- Payment Gateway Integration

Project 2: Online Learning Management System

- Admin Panel for Course Management
- User Dashboard for Students & Teachers
- Video Streaming & Chat Features



WELCOME TO OUR EDTECH FIRM

Choose Tech Learniversity for quality education from industry experts committed to empowering your success. Embark on a transformative educational journey with Tech Learniversity and unlock your potential for a brighter future. Together, we can create meaningful experiences that inspire growth, collaboration, and success!

Company Description

At Tech Learniversity, we are dedicated to transforming lives through accessible, cutting-edge technology education and personalized learning experiences that empower individuals to excel in the digital era.

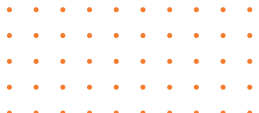


ABOUT US

Company Description

Tech Learniversity is a cutting-edge EdTech firm dedicated to revolutionizing global education through personalized learning experiences. We offer innovative training programs, including immersive bootcamps and next-generation AI courses, designed to equip learners with the skills needed to excel in today's competitive job market.

[More Information](#)



OUR HISTORY

2021-2022

Established in 2021, Tech Learniversity has quickly become a transformative EdTech firm dedicated to enhancing educational experiences for learners worldwide.

2023-2024

We have successfully developed a diverse range of services that address the evolving needs of the education industry, from K-12 to professional training.

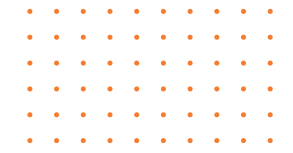
2025

Tech Learniversity is making history by offering innovative global services that empower learners to achieve their career aspirations and thrive in a competitive job market.





OUR VISION



01.

At Tech Learniversity, we envision a future where education is accessible and personalized for every learner, empowering them to thrive in a dynamic global workforce.

02.

We aim to be a leader in EdTech innovation, fostering a community of lifelong learners who drive positive change and contribute to a better society.

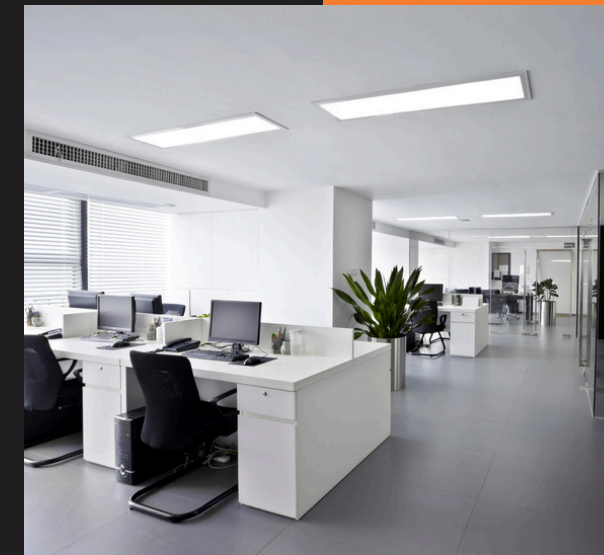
OUR MISSION

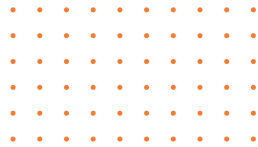
01.

At Tech Learniversity, we empower learners of all ages through innovative training programs and personalized educational experiences that foster skill development and career advancement.

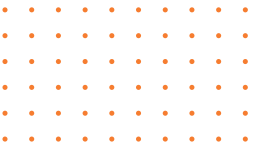
02.

Committed to diversity and inclusion, we strive to make high-quality education accessible and relevant, ensuring every individual can unlock their full potential in a competitive global workforce.





OUR SERVICE



Training

Tech Learniversity provides different types of training catering to different types of students, professionals.



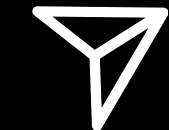
Interview Preparation

Tech Learniversity provides interview preparation services to students and professionals



Placement Assistance

Tech Learniversity provides placement assistance services.



Jobs

Tech Learniversity provides job-related services to student, professionals and companies.



M SENDIL KUMAR

FOUNDER, DIRECTOR & CEO

Under the visionary leadership of our Founder, Director, and CEO, M Sendil Kumar, we are transforming education through technology. With over 15 years of expertise in the IT field, M Sendil Kumar is passionate about making quality education accessible to all.





CONTACT US

Get in touch with Tech Learniversity



+91-908-2949-171



www.techlearniversity.com



business@techlearniversity.com



247 Park, Lal Bahadur Shastri Marg, Gandhi Nagar,
Vikhroli West, Mumbai - 400079, Maharashtra, India





**THANK YOU FOR
CHOOSING
TECH LEARNIVERSITY**

