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Student Tribe

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School

Java Full Stack with AI - Transform Your Career

AI-Integrated Full Stack Developer Pathway

St. School

About
St.School

Student Tribe has launched ST School, a place where learning feels real and practical. At ST School, we bring Industry Experts, CEOs, CTOs, and Mentors to teach you directly. Our goal is to make you job-ready, not just classroom-ready.

What We Do

- We teach every topic in a simple and practical way.
- You will work on real-time projects and learn how companies actually build things.
- We take mock interviews to help you feel confident before real interviews.
- We guide students until they get placed, with full career support.
- Our classes are not like regular classes you get real industry exposure.
- You will learn the latest tools used in top companies for better understanding.
- We focus on hands-on learning, not just theory.
- Learn directly from people who work in the industry.
- Get real experience, real projects, and real guidance.
- Become confident, skilled, and ready for your first job

Placement Testimonials

Golla.Meghana

Mern stack (front-end developer)
Company: abhyaas edu technologies

Koyya. Tejeswhar

Mern stack
Company: CREDERA

T.ramgopinath

Mern stack
Company: Arc stream technologies

K.upendra

Mern stack
Company: yard global software solutions

Koyya. Tejeswhar

Mern stack
Company: kis.ai

Y.monohar

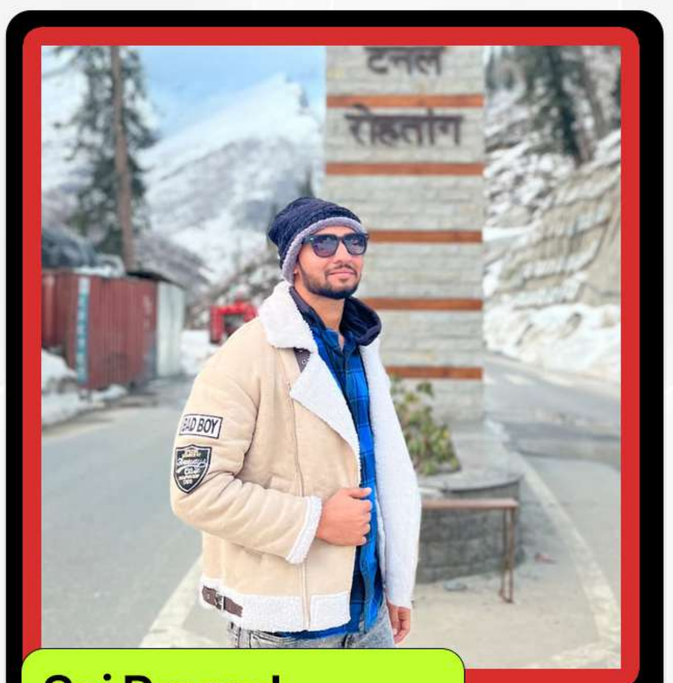
Mern stack
Company: studenttribe

Mounika

Mern stack
Company: marut drones

T.Jagadhesh hanuman

Mern stack
Company: kis.ai



Sai Prasad

Mern stack
Company: svamyo

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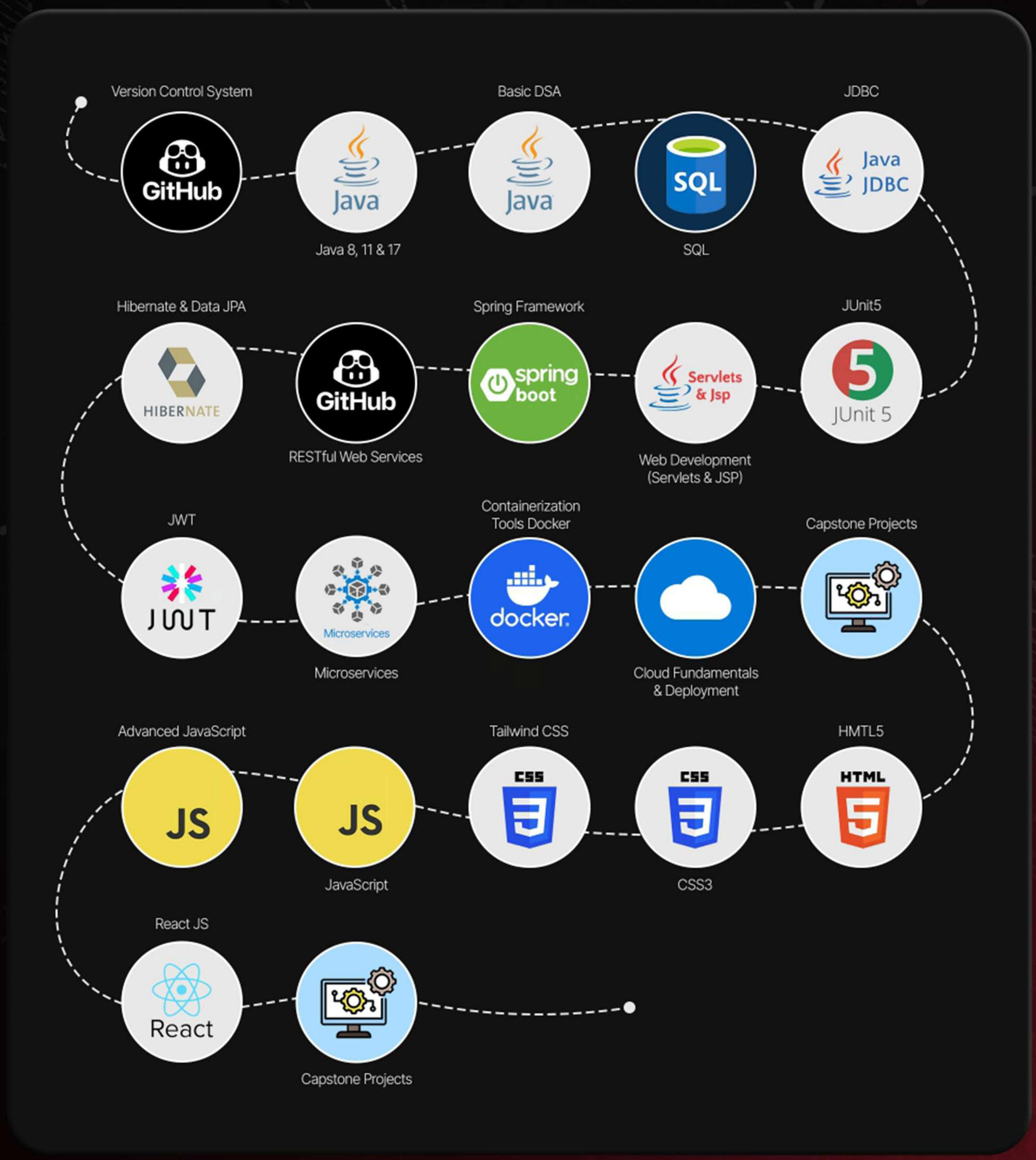
Java Full Stack Learning Path with Key Highlights



Module 1 (2.5 Weeks)

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Foundation : Front-End Technologies

This module teaches you how the front end of a website is made. You'll design responsive web pages, work with real data using APIs, and practise using modern tools like HTML, CSS, JavaScript, and Tailwind.By the end, you will be able to build full responsive web apps that can fetch and show real data. You will also learn simple testing methods to check if your code works correctly.

Topics Covered:

Web Page Structure

- HTML5
- Semantic Elements
- Document Structure

Programming Basics

- JavaScript Fundamentals
- Functions & Functional
- Programming
- Arrays, Strings
- ES6 Features

Development Tools

- Visual Studio Code
- Static Servers
  (http-server, live-server, json-server)
- Version Control (GitHub)

Testing

- Unit Testing: Jasmine
- Karma

Styling & Layout

- CSS3
- Applying Styles
- CSS Selectors
- Responsive Web Design
- Media Queries
- Bootstrap 4
- Components
- Responsive Grid System

Working with Data

- Async Programming
- Callback Functions
- Promises
- AJAX
- Fetch API
- JSON Server
- Async & Await

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Module 2 (3 Weeks)

TypeScript & React

This module introduces you, how to use TypeScript and React to build strong, scalable, and easy-to-maintain web applications.TypeScript helps you write cleaner and safer JavaScript code by catching errors early. React allows you to create fast, interactive, and dynamic user interfaces. Through practical tasks, real projects, and group learning, you'll gain confidence in both technologies. By the end, you will know how to build a complete application using TypeScript and React.

Topics Covered:

TypeScript Basics

- Introduction to TypeScript
- Basic TypeScript Concepts
- Advanced TypeScript Features

React Fundamentals

- Getting Started with React
- React Component Lifecycle
- State Management in React

Building Applications

- Routing in React Applications
- Form Handling in React
- API Integration

Quality & Deployment

- Testing React Applications
- Deploying React Applications

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Module 3 (3 Weeks)

Mastering Java Programming

In the Mastering Java Programming module, learners will understand the core concepts needed to build stable applications. This module covers data types, loops, methods, object-oriented programming, and handling errors in Java. Students will also learn collections and generics, which help in managing groups of data safely and efficiently.

Through hands-on coding and practical examples, you will build strong programming skills and learn the best practices of Java development. By the end, you'll be confident in solving basic to intermediate programming tasks and ready to move into advanced full-stack topics.

Topics Covered:

Core Java Basics

- Programming Fundamentals
- JDK, JVM, JRE

Working with Data

- Arrays & Strings
- Exception Handling
- Working with Input/Output (I/O)

Testing

- Unit Testing with JUnit

Classes & Object-Oriented Programming

- Working with Classes, Objects, and Methods
- OOP Features: Inheritance,
- Polymorphism, Abstraction,
- Encapsulation

Advanced Java Concepts

- Collection Framework
- Streams API
- Multi-Threaded Programming

Module 4 (2.5 Weeks)

Back-End Development: SpringFramework

In this module, learners will explore Spring Framework and Spring Boot, two important tools for building modern Java applications. Spring helps manage the structure of an application, while Spring Boot makes development faster and easier with built-in setups. You will learn core topics like dependency injection, data access, and Spring Security, along with practical hands-on exercises. By the end, you will be able to build scalable and maintainable backend applications using Spring and Spring Boot.

Topics Covered:

Spring Framework Basics

- Spring Core Container
- Spring Architecture
- IoC (Inversion of Control)
- Dependency Injection

Database & ORM

- Hibernate ORM Framework
- Entities & DAO with Spring-Hibernate
- Entity Relationships:
  - One-to-One
  - One-to-Many
  - Many-to-Many

Testing & Security

- Unit Testing with JUnit

Web Development with Spring

- Spring MVC
- Dispatcher Servlet
- View Resolvers

Spring Boot & REST APIs

- Testing REST APIs using Mockito
- Spring AOP
- Spring Security with JWT

Modern Databases

- Working with NoSQL Databases
- Working with GraphQL Databases

Module 5 (2.5 Weeks)

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Microservices Architecture

The industry is shifting from building large monolithic applications to smaller, modular Microservices. Microservices is an architecture where an application is broken into small, independent services that are easy to maintain, scale, and deploy. This approach allows companies to deliver large enterprise applications faster, more reliably, and using multiple technologies.

Topics Covered:

Introduction to Microservices

- Microservices Architecture
- Monolithic vs Microservices
- Microservices Design Patterns

Spring Cloud Essentials

- Spring Cloud Overview
- Eureka Service Registry & Discovery
- Zuul API Gateway
- Client-Side Load Balancing (Feign, Ribbon)
- Config Server for Distributed Configuration

Communication Between Services

- REST communication using RestTemplate
- Declarative communication using Feign
- Asynchronous communication using Message Brokers

Resilience & Monitoring

- Fault Tolerance with Hystrix
- Distributed Tracing with Zipkin
- Monitoring Microservices using
- Grafana & Prometheus

Documentation

- Documenting Web Services using Swagger

Module 6 (1 Week)

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Engineering - DevOps : CI/CD

In the Deployment and CI/CD module, learners will understand how to automate the software release process using Continuous Integration and Continuous Deployment (CI/CD). This module explains deployment pipelines, version control, and environment setup with tools like Jenkins, GitHub Actions, and Docker. By the end, students will be able to design CI/CD pipelines and deploy applications to cloud platforms for fast and reliable software delivery.

Topics Covered:

DevOps Fundamentals

- Introduction to DevOps
- Challenges in shipping a product
- Importance of automating build, test & deploy stages

Continuous Integration (CI)

- Understanding Continuous Integration
- Writing CI files with different stages for
- front-end & back-end applications

Docker & Containerization

- Docker Basics: Docker Engine, Docker Images, Containers, Networks
- Containerizing Front-End Applications
- Containerizing Back-End Services
- Working with Docker Compose

Continuous Delivery (CD

- Understanding Continuous Delivery
- Building automated delivery pipelines

Module 7 (1 Week)

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Practical AI for Full-Stack Engineers

In the Practical AI for Full-Stack Engineers module, learners will understand how to use and integrate large language models (LLMs) and AI tools. You will learn how AI can speed up development, testing, documentation, and help build AI-enabled features. The module also covers the limitations and safety aspects of using AI in real projects.

Topics Covered:

AI & LLM Fundamentals

- Introduction to Large Language Models (LLMs)
- Overview of AI Developer Tools

Tools & Platforms

- GitHub Copilot
- Cursor IDE
- ChatGPT / OpenAI

Automating Development Tasks

- Using AI to automate repetitive dev tasks
- Integrating AI into daily workflows

AI in Coding

- Code Generation
- Code-Assist Workflows
- Improving Code Quality, Security & Evaluation

Prompt Engineering

- Prompt Engineering Basics
- How to write effective prompts

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Meet Our **Instructor**

Madhu Samala

Career Highlights

- **16+** Years of Corporate Training Experience
- Guided **10,000+** Learners in Transforming Their Careers.
- Founder & CEO: Training Mug & PrepVerse

Core Technology Companies Worked With

IBM

cognizant

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Where Development Meets AI Intelligence

(25+ AI Tools Covered)

HTML
CSS
JavaScript
React
Express JS
uizard
node
spring boot
JSP
Java JDBC
mongoDB
MySQL
SQL
Hugging Face
aws
docker
kubernetes
Maven
Jenkins
JUnit 5
cucumber
git
Jira Software
EXIN Agile Scrum FOUNDATION Certified by EXIN

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Our Alumni
Are Working At

experion technologies

ThermoFisher SCIENTIFIC

Infosys

TATA CONSULTANCY SERVICES

JPMorganChase

wipro

accenture

amazon

Microsoft

Capgemini

Talk to Our Academic Counsellor:

Manisha Nare

84989 63240

THANK YOU

Need more insights?

Speak with Our Career Counsellor for a Detailed Overview of Our Program.

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