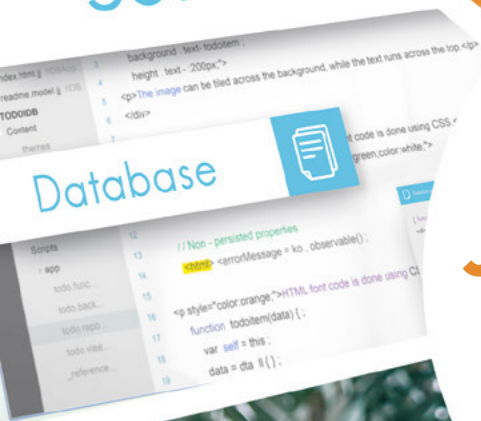




simplilearn



Software



# FULL STACK JAVA DEVELOPER

Masters Program



In collaboration with



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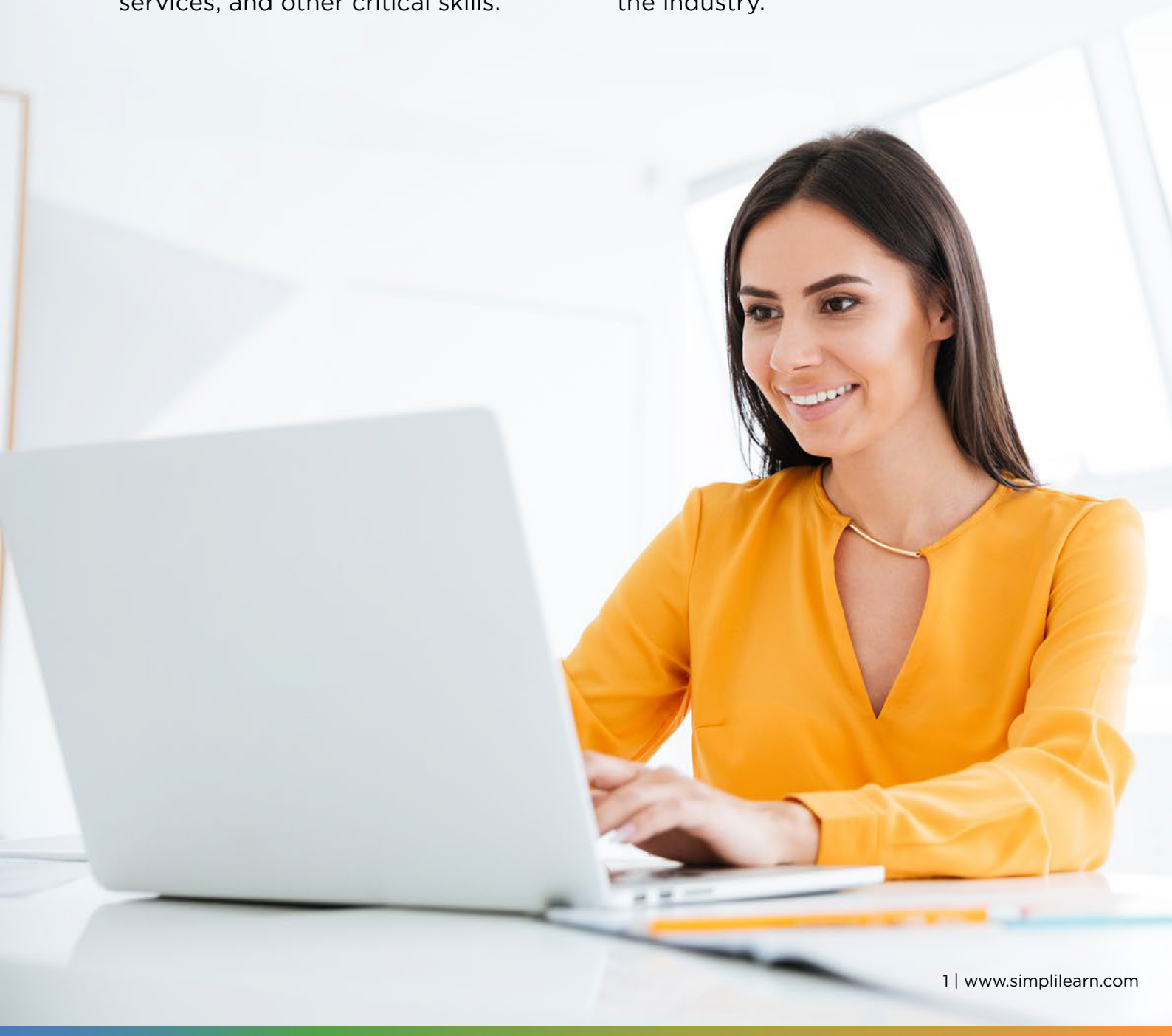
About Simplilearn



## About the course

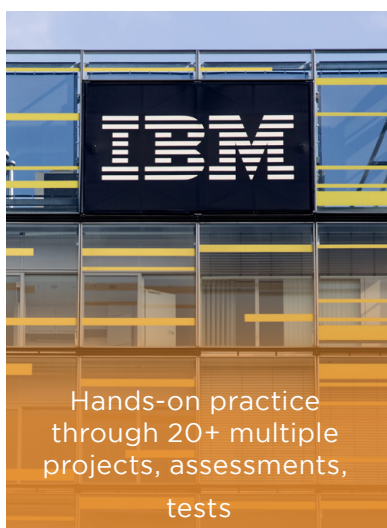
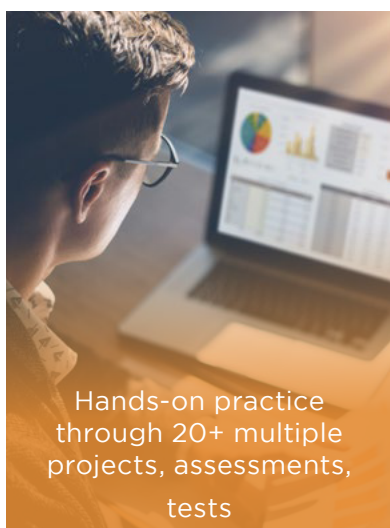
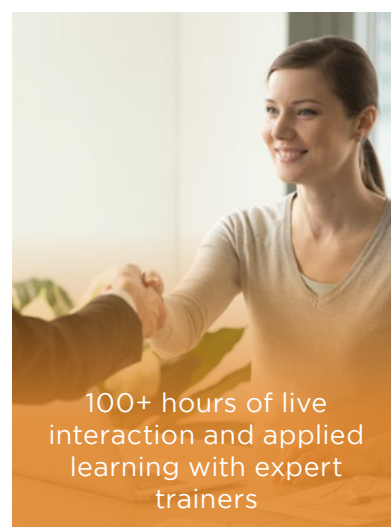
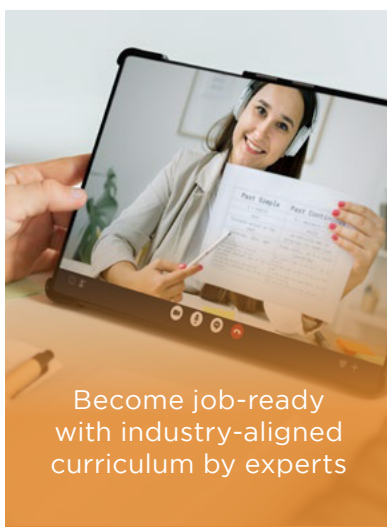
This Full Stack Java Developer program will help you master both front-end and back-end Java technologies and accelerate your career as a Full Stack Software Developer. This course will expose you to basic and advanced concepts of web development. You will get hands-on experience with ReactJS, Spring Boot, Servlets, JSPs, web services, and other critical skills.

You will learn how to use JavaScript, and Node.js to build dynamic and interactive websites; write APIs; build web applications using Java; test and deploy code using DevOps; store data using MongoDB; and much more. This course will help advance your career as a full stack developer and help you learn some of the most high-demand skills in the industry.

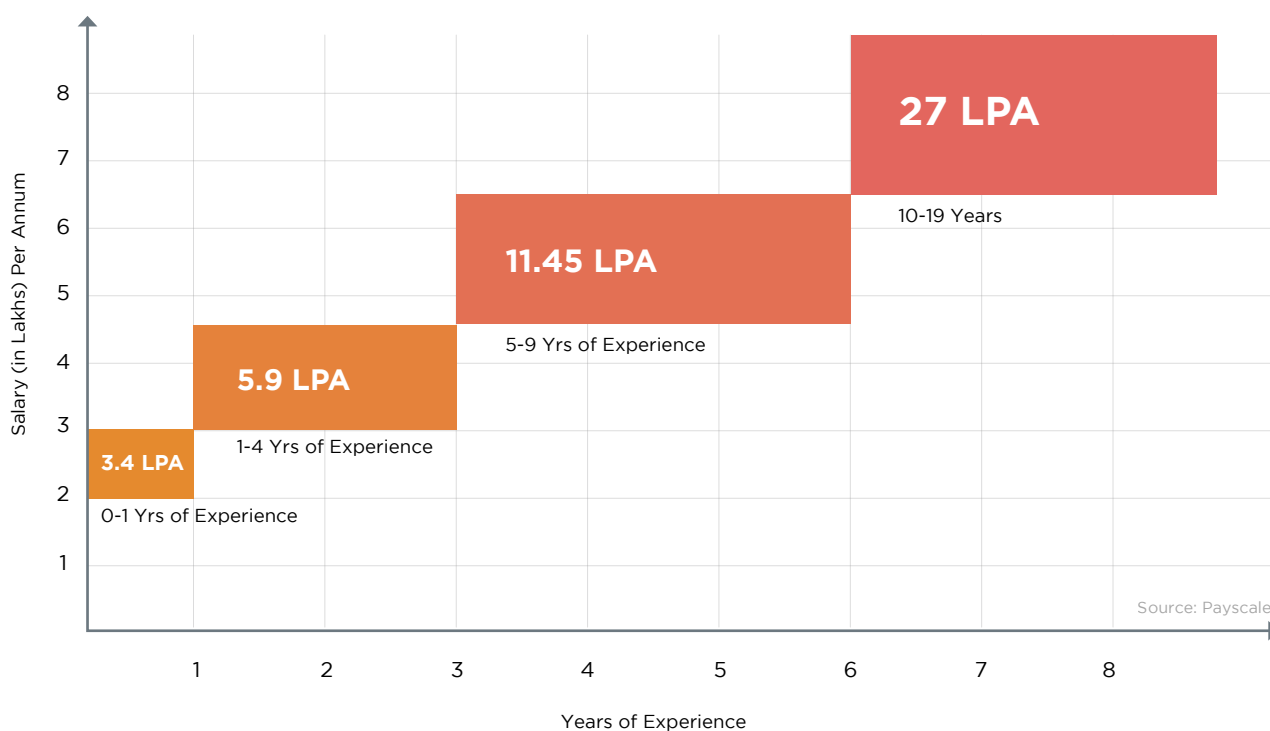




# The only Full Stack Java Developer program in the industry with:



## Careers in Full Stack Development



Some of the job roles associated with Full Stack Development are Full Stack Developer, Front-end Engineer, Full Stack Engineer, Software Engineer, etc.



## Program Outcome

At the end of this program, you will be able to



Learn the fundamentals of software development to create outstanding apps



Become an Agile practitioner with the capacity to join a project in progress in your sector rapidly



Clone, then begin modifying a live repository



Create fantastic front-end features



Build scalable back-end infrastructure



Choose your own stack based on the delivery schedule and requirements



Test features with minimal effort and deploy them seamlessly to production



From scratch, create a functioning industrial application

# Learning Path & Career Services





## All About Planning and Designing UI

Comprehend the fundamental ideas behind Agile and Scrum. Get in-depth knowledge of Git, which is used to handle version control systems. Develop interactive and dynamic applications with HTML, CSS, and ReactJS.

### Skills covered:

- ✓ Agile
- ✓ HTML
- ✓ ReactJS
- ✓ Git
- ✓ CSS
- ✓ Cucumber
- ✓ SQL
- ✓ JavaScript

### By the end of this phase, you will be able to:

1. Work with Agile methodology
3. Learn the concepts of SQL
5. Get familiar with the basics of JavaScript
2. Use a version control system, maintain your code in the cloud, and understand repositories
4. Understand basics of web development, and create visually appealing websites
6. Create front-end applications with a framework approach
7. Perform E2E testing



## Data Structure and Algorithm

In this module, you will understand core data structures like—arrays, linked lists, stacks, queues, trees, heaps, and graphs - enabling you to select the optimal data structures for diverse scenarios.

### Skills covered:

- ✓ Data structures
- ✓ Types of Data Structures
- ✓ Searching and Sorting Algorithm
- ✓ Recursion and Backtracking

### By the end of this phase, you will be able to:

1. Solve problem using algorithm
2. Understand fundamentals of data structures





## A-Z of Back-end and Database Development

Familiarize yourself with back-end development technologies by gaining knowledge of Java servlets, and JSP which helps you connect databases with JDBC.

### Skills covered:

- ✓ Core Java
- ✓ Maven
- ✓ JDBC
- ✓ Servlets
- ✓ JSP
- ✓ MongoDB

### By the end of this phase, you will be able to:

1. Get familiar with DB communication with Java
2. Understand Core Java concepts
3. Understand server-side coding using Servlets
4. Build automations
5. Develop web pages to execute Java inline



## API Endpoints and Communication

Learn the fundamentals of Spring and its framework architecture, utilize Spring Boot to manage errors, and create RESTful web services.

### Skills covered:

- ✓ JUnit
- ✓ Spring
- ✓ Spring Boot
- ✓ Web Services

### By the end of this phase, you will be able to:

1. Write test cases using JUnit
2. Get started with Spring
3. Develop a rapid application using Spring Boot
4. Understand REST and SOAP services



## Capstone Project

In this full stack bootcamp approach, you will work on an original problem from the beginning and learn how to put your abilities to use. The capstone project aids in the development of a portfolio that will represent your abilities to a wide range of people, including potential employers.



## Learn All Things Integration and Deployment

Learn how to deploy continuous integration and automation using common DevOps tools.

### Skills covered:

- ✓ AWS
- ✓ Jenkins
- ✓ Docker

### By the end of this phase, you will be able to:

1. Build automation using Jenkins
2. Get started with AWS
3. Use containerization with Docker



## IBM - Docker Essentials: A Developer Introduction

### Skills covered:

- ✓ Containerization with Docker
- ✓ Solving Orchestration Problems

### By the end of this course, you will be able to:

1. Learn how to use containers for your applications.
2. Create and run your first Docker container.
3. Learn how to run containers in production and solve problems of orchestration such as high availability, service discovery, and reconciliation.



# IBM - Introduction to Containers, Kubernetes, and OpenShift V2

## Skills covered:

- ✓ Containers
- ✓ Kubernetes
- ✓ OpenShift V2

## By the end of this course, you will be able to:

1. Learn the core concepts of Containers and Kubernetes and explains how containers differ from virtual machines.
2. Understand the importance of containers in cloud computing as well as the emerging ecosystem of related technologies such as Docker, Kubernetes, OpenShift, Istio and Knative.

# Certificate







## About Simplilearn

Simplilearn is the world's #1 online bootcamp provider that enables learners through rigorous and highly specialized training. We focus on emerging technologies and processes that are transforming the digital world, at a fraction of the cost and time of traditional approaches. Over one million professionals and 2000 corporate training organizations have harnessed our award-winning programs to achieve their career and business goals



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**Disclaimer:** All programs are offered on a non-credit basis and are not transferable to a degree.