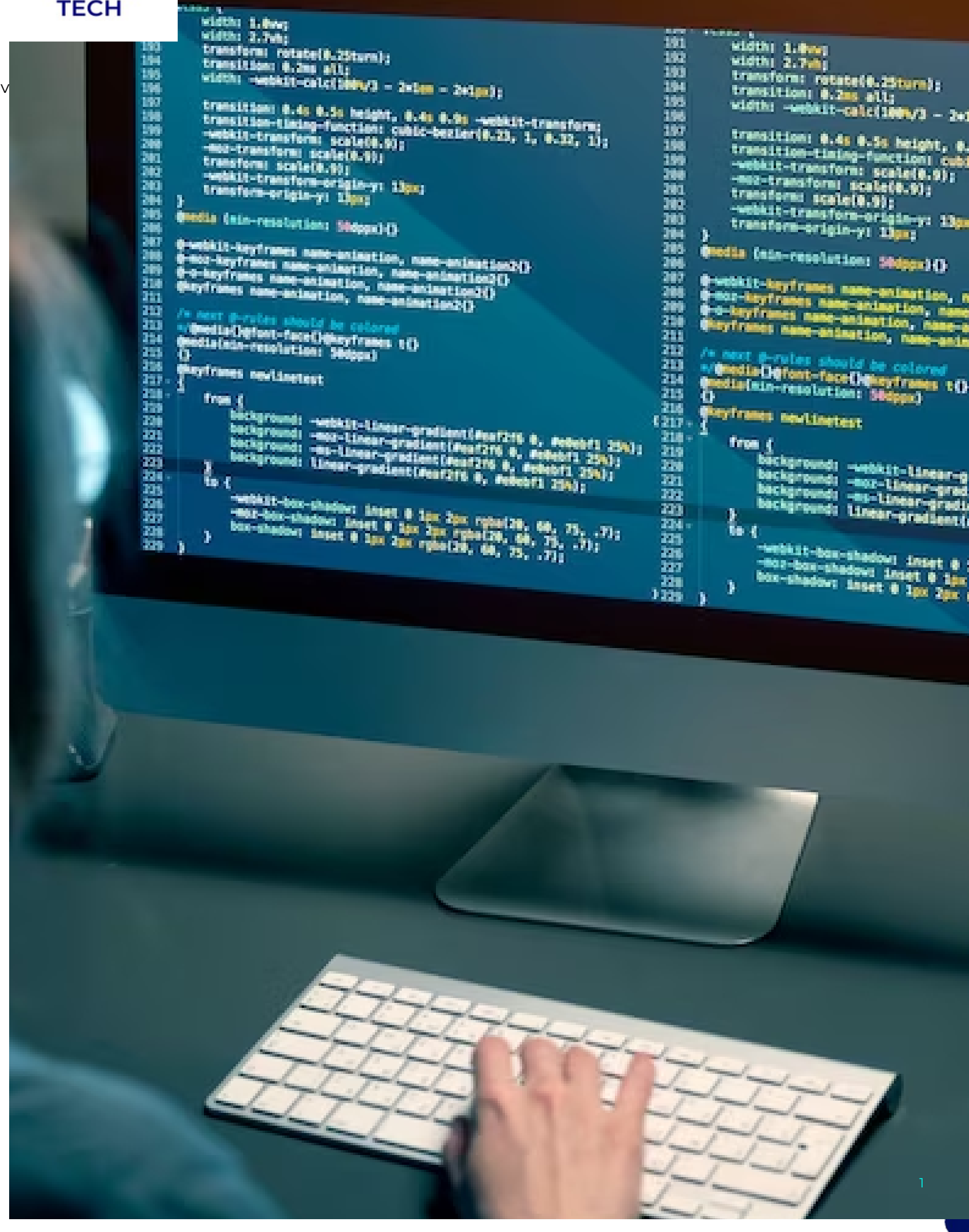
VIRAJE TECH

COREJAVA



- Access to Interview Opportunities with Top Companies
- Industry-Relevant Curriculum Designed and Taught by Industry Experts
- Hands on Project and Industry Specific Tools
- Dedicated CareerSupport and Interview Preparation
- Post Graduate Certificatefrom Great Lakes Executive Learning

Choosing Core Java in the IT industry can be a strategic decision due to its foundational role in software development. Core Java provides a robust and versatile platform for building scalable and cross-platform applications. Its object-oriented nature promotes modular and reusable code, making it an ideal choice for developing large-scale enterprise systems. The vast Java ecosystem, along with a wealth of libraries and frameworks, empowers developers to create diverse applications, from web and mobile applications to backend services. Moreover, Java's portability and platform independence ensure that applications developed in Core Java can run seamlessly across different environments. As a widely adopted programming language, Core Java skills are in high demand in the IT industry, offering individuals a strong foundation for various roles such as software development, system architecture, and enterprise-level application design. Overall, choosing Core Java equips professionals with a versatile and in-demand skill set, making them valuable contributors to the dynamic and ever-evolving IT landscape.

The Program helps you do grow and bloom in Industry and developed by best-in-class industry experts.It offers a blend of online learning with live and recorded lectures along with access to dedicated career support and rewarding job opportunities.

LEARN ONLINE ANYTIME, ANYWHERE

Learn from live masterclasses by top industryleaders and online lab sessions every week, along with 100+ hours of learning content.

WEEKLY ONLINE MENTORSHIPFROM EXPERTS

Get assistance on projects and reinforce the concepts you learn through weekly mentorship sessions.

NETWORK WITH LIKE-MINDED PEERS

Interact with peers from diverse backgroundsand grow your professional network.

DEDICATED PROGRAM SUPPORT

Access dedicated support on your learning journey and resolve for all your queries withhelp from a dedicated Program Manager.

A fresh graduate or a working professional looking to up-skill andbuild a career.

LEARNING PLAN

COREJAVA

Module 1Introduction to Java

1.1 History and evolution of Java.

1.2 Setting up the Java development environment.

1.3 Basic syntax and structure of Java programs.

1.4 Writing and running your first Java program.

Module 2:Data Types and Variables

2.1 Primitive data types (int, float, double, boolean, etc.).

2.2 Reference data types (objects).

2.3 Variables and constants.

2.4 Type casting and conversion.

Module 3: Control Flow

3.1 Conditional statements (if, else, switch).

3.2 Looping statements (for, while, do-while).

3.3 Break and continue statements.

3.4 Exception handling with try-catch blocks.

Module 4:Object-Oriented Programming (OOP)

4.1 Classes and objects.

4.2 Constructors and methods.

4.3 Inheritance and polymorphism.

4.5 Encapsulation and access modifiers (public, private, protected).

Module 5:Collections Framework (Java 8 Enhancements)

5.1 Lists, sets, and maps.

5.2 Iterating through collections (for-each loop).

5.3 Lambda expressions (introduced in Java 8).

Stream API for data manipulation (introduced in Java8).

Module 6:Functional Programming with Lambdas

6.1 What are lambda expressions?

6.2 Syntax and usage of lambda expressions.

6.3 Functional interfaces (e.g., Predicate, Consumer, Function).

6.4 Method references.

Module 7: Java 8 Date and Time API

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Module 8: File Handling

8.1 Reading from and writing to files.

8.2 Working with directories

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8.3 Exception handling in file operations.

Module 9: Concurrency and Multithreading

9.1 Introduction to threads.

9.2 Creating and managing threads.

9.3 Synchronization and thread safety.

9.4 Java 8 Completable Future for asynchronous programming.

Module 10: Java Streams

10.1 Understanding the Stream API in Java 8.

10.2 Stream operations (filter, map, reduce, collect).

10.3 Parallel streams for concurrent processing.

Module 11: Java 8 Features (Optional)

11.1 Default and static methods in interfaces.
11.2 The java.util.Optional class.
11.3 New features in the Java 8 API.

READY TO ADVANCE YOUR CAREER?

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