

Introduction To Java

Powerful & Versatile

Used worldwide across
industries

Platform-Independent

Write once, run anywhere with
JVM

Universal Applications

Web, mobile, enterprise & cloud



Core Java & Object-Oriented Programming

Java Fundamentals

- Syntax & data types
- Exception handling
- Collections framework

Advanced Concepts

- Generics & multithreading
- Memory management
- JDBC database connectivity



Classes & Objects

Building blocks of Java programs



Inheritance

Code reusability through hierarchies



Encapsulation

Data protection & abstraction



Polymorphism

Flexible, dynamic behavior



Modern Java Frameworks & Technologies



Spring & Spring Boot

Scalable web apps & REST APIs



Microservices

Modular, independent deployment



RabbitMQ & Kafka

Asynchronous messaging systems



Security

Authentication & authorization

Spring Framework

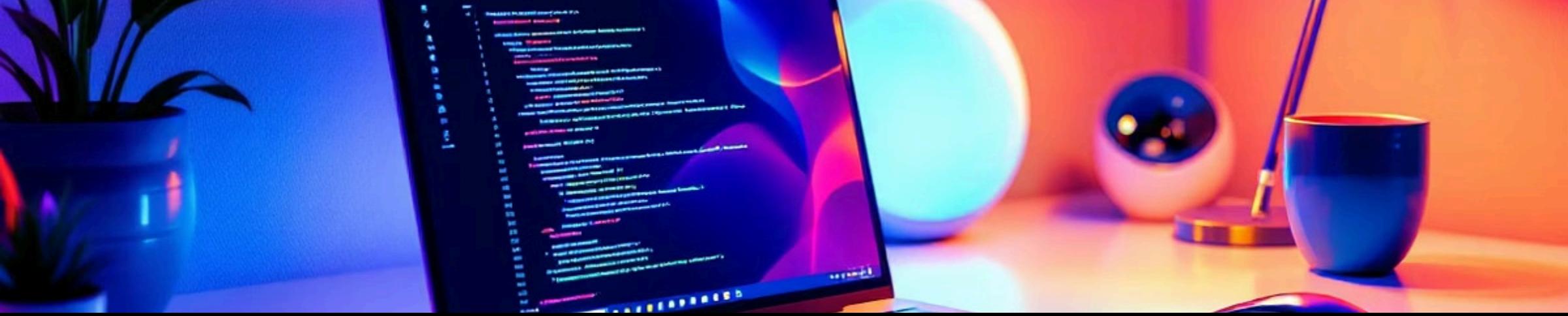
Dependency injection, AOP, enterprise integration

Messaging

Real-time data streams, event-driven architecture

Protection

OAuth2, JWT tokens, data encryption



Additional Skills & Practical Features

1 Email Automation

Integrate mailing capabilities within applications

2 File Operations

Efficient reading, writing & file management

3 Cloud & Containers

Docker deployment, cloud-native development

4 Continuous Growth

Staying current with Java's evolving ecosystem



Why Java? Applications & Future



Mobile Development

Powers millions of Android applications



Enterprise Systems

Financial platforms & business solutions



AI & Innovation

Cloud-native apps, ML integration

Strong Community

Continuous evolution & support

High Performance

Secure, scalable architecture

Career Ready

Equipped for modern challenges