



## Programmer Analyst - Full Stack Java Developer (LCA.CL)

**Duration** | 10 months

**Delivery Methodology** | Online / In-class

### Program Overview

With the world becoming a digital village, every business wants their space in it to make their presence known. And it begins with having a website. Full stack Java development is building dynamic web applications & websites with a combination of server-side & client-side technologies, along with databases.

This program enables you to become a skilled full-stack Java developer as you begin learning the programming constructs and fundamentals in Java Core. Later you learn to create responsive web layouts using HTML, CSS, JavaScript.

### Course Outline

- 1 | Software Methodologies
  - Software development lifecycle
  - Requirement gathering and analysis
  - Agile, waterfall, scrum methodologies
- 2 | Introduction to Programming
  - Variable, class, control statements, looping statements
  - Writing pseudo logic, flowchart and algorithm designing for a problem
- 3 | Front End Technologies
  - HTML, CSS, bootstrap
  - Java script like tags, color options in a webpage
- 4 | Fundamentals of SQL Programming
  - CRUD operations, DML, DDL statements
  - Views, triggers, and procedures
- 5 | Fundamentals of Programming
  - Basic java like class, method, objects
  - Method overriding, inheritance and polymorphism
- 6 | Advanced Java programming
  - Multithreading, Advanced Object-Oriented Programming
  - Collections Framework, Java Database Connectivity (JDBC)
- 7 | Java Memory Management
- 8 | Java Persistence API with Framework Hibernate
  - Mapping Java objects to database tables and perform CRUD operations
  - Manage transactions and optimize database interactions using Hibernate
- 9 | Spring Framework for Enterprise Applications
  - Spring Configuration and Spring Dependency Injection
  - Aspect-Oriented Programming (AOP), Spring MVC, Spring Boot
  - Spring REST and Web Services
- 10 | Career Development
  - Resume and Cover letter Preparation
  - Interview Preparation
- 11 | Project
  - Practical application of all the above courses

### Career Options



Java Developer



Full Stack Java Developer



Java / Microservices Developer



Java Programmer



Java Back-end Developer



Software Developer (Java)



Software Engineer (Java)



Paid Search Manager

### Industry Overview

- 1 | According to BMC survey results, Not surprisingly, demand for Java Developers is expected to grow between now and 2024 by up to 19%.
- 2 | With over 20 years as one of the mainstays in programming languages, Java's past is significant, which leads the industry to question its longevity.
- 3 | Industries like Information Technology, Arts, Design and media, Retail, catering and bar work, Marketing, PR and sales - are looking out for professional Web App Developers.

### Skills you Acquire

- Designing, implementing, and maintaining Java applications that are often high-volume and low-latency, required for mission-critical systems.
- Delivering high availability and performance.
- Contributing in all phases of the development lifecycle. Writing well-designed, efficient, and testable code.
- Conducting software analysis, programming, testing, and debugging.
- Managing Java and Java EE application development.

Tuition: \$10,000 CAD

**Winter session begins on the 9th of February 2024**  
Talk to an advisor to learn more about our payment plans, financing options, bursaries and tax credits.



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### Why Choose MCIT?

#### 1 Industry Focus

Our curriculum is solely based on the latest industry trends to make sure you are equipped with the right skillsets.

#### 2 Project Based Learning

Your learning is solidified with a project at the end of the course to make you job ready. This project is implemented under the guidance of your instructor

#### 3 Get trained by Domain Experts

The courses are taught by industry experts who have got years of experience in respective domains. This way you shall be learning key concepts from people who have already solved similar problems

#### 4 State of the Art Infrastructure

Every student gets a dedicated VM (Virtual machine) as they join this program to serve their needs in terms of intense computation, access from anywhere.

#### 5 Strong Alumni Network

You are not alone for you have a 5000-member strong Alumni network as you study at MCIT

#### 6 Learn while you work | Earn while you learn

Learn new skills to take your career to next level while continuing your work due to our flexible schedules.

### Financial Aid

#### 1 AFE Loan

Full tuition fee could be covered under AFE loans provided by Quebec Government.

#### 2 Scholarship

On a case-by-case basis, local students can reach out to private bursaries to receive anywhere between \$500 CAD - \$2000 CAD.

Note: For further information about financial aid, please speak to any of our advisors.

### Career Support Services

The Career Center at MCIT is designed to offer students and alumni the opportunity to learn about the Canadian job market and how to sell their skills and experience to successfully find job opportunities. You shall be assisted in learning:

#### 1 Canadian Customs

#### 2 The art of Networking

How to build a professional network

#### 3 Cover Letters Writing

#### 4 CV & Resume Writing

#### 5 Internship Preparation

#### 6 Job Search Checklist

Exploration, Preparation, Implementation

#### 7 LinkedIn Profile

#### 8 Interview Preparation

#### You'll be Job-ready!

### Learning Methodology

Learning Methodology is the central mechanism for learning advancement. It's the core that drives all your expertise and knowledge to attain professional success.

