# CodingNOMADS

Java & Software Engineering Fundamentals 4 week online syllabus

### 20+ hours/week

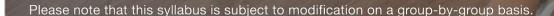
Mon & Weds: 90 min online lectures + live Q&A 2 Private mentor sessions/week
Team Slack channel for questions & collaboration

# Instructor - Ryan Desmond

10+ years software engineering experience 3 years teaching experience Linkedin.com/in/ryanadesmond

Got questions? Get in touch!

kim@codingnomads.co



# **SYLLABUS**

# 4 week online intensive

# Core Java



# **Engineering Fundamentals**

#### Java Fundamentals

Software engineering principles & applications
Intro to Java - when & why to use it
Constructors, Data Types, Variables
Operators, Flow Control
Methods, Objects, Classes
Exceptions & Exception Handling
Generics, Lambdas, Documentation
Libraries, Conventions, Identifiers, etc.

## Java Development

JDK, JRE and Virtual Machines Command Line Interface IntelliJ IDE Debugging & Deployment

## **Java Programming**

Intro to Object Oriented Programming
Abstraction, Inheritance, Polymorphism, Encapsulation
Application architecture – Design, Packaging, Reusability

#### **Version Control & Collaboration**

Git, GitHub, Syntax and Usage Collaboration: Atlassian Jira Agile Software Development Methodology

## Databases & Data Management

SQL Syntax MySQL & JDBC Database Management

## Intro to Advanced Concepts

Spring Framework RESTful APIs, client libraries Model View Controller (MVC) Amazon Web Services (AWS)

