Java

Below, the Java topics for Java Ramp Up are described. The Ramp up process is administrated using the Java Trello Board

Java Ramp Up				
Category	Topic	Hours	Resources	Challenge Type
			Link	
Java Basics (week 1)	Object Oriented Concepts	4	Lesson: Object-Oriented Programming Concepts	Algorithm Challenge
	Class and Objects (Inheritance, Composition, access modifiers)	4	Lesson: Classes and Objects	
	Types	4	Lesson: Language Basics	
	Generics	8	Lesson: Generics (Updated)	
	Annotations	8	Lesson: Annotations	
	Collections API	8	Trail: Collections	
Java Advanced	Lambda Expressions	8	Lambda Expressions	Data processing Challenge
(week 2)	Streams and Lazy Evaluation	8	Processing Data with Java SE 8 Streams, Part 1	
	Concurrency (Threads)	8	Lesson: Concurrency	
	Concurrency (Completable Futures)	8	Java 8: Definitive Guide to CompletableFuture	
Java Ecosystem (week 3)	Spring Core Framework	8	Introduction to the Spring Framework	API Challenge
	Spring MVC	4	Serving Web Content with Spring MVC	
	Spring Test	4	Spring Framework: Part IV. Testing	
	JPA (Hibernate)	8	Accessing Data with JPA	
	Junit - Mockito	8	Unit tests with Mockito - Tutorial,	
			Unit Testing with JUnit - Tutorial	
	Databases	8	MySQL Tutorial	
			Mongo Tutorial	
Design Principles (week 4)	SOLID	8	Bob Martin SOLID Principles of Object Oriented and Agile Design	
			SOLID Design Patterns	
	GoF Patterns	12	Twenty years of Design Patterns	
			g f patterns	
			Factory Method Pattern	
			Abstract Factory Pattern	
			Singleton Pattern	
			Observer Pattern	
			Strategy Pattern	
	Functional Programming (Inmmutability, Pure Functions, Referential	12	Functional Programming from First Principles	