Roadmap to Java Learning

Java Developer in 2020

Legends
- Personal must know
- Good to know
- Possibilities

Learn the Prerequisites

- Java CLI
- Variables, Constants, Types, Function, Packages, etc
- Array & ArrayList
- Pointers, Class, Methods
- Interface
- Thread, Routine
- Exception handling

Java

Gradle/Maven, Library
- Learn Java dependency management tool
- semantic versioning
- Version, scripts, repository and other Properties

SQL fundamentals
- Basic Sql Syntax

General Development Skills
- GIT
- HTTP/HTTPS
- Data Structures and Algorithms
- Scrum, Kanban or other project strategies
- Basic Authentication, OAuth, JWT, etc
- SOLID, YAGNI, KISS

CLI
- JCommander
- airline

Web Frameworks + Routers
- Spring
- Play Framework
- Spark
- Jersey
- nanohttpd

ORMs
- Hibernate
- Ebean

Databases

Relational
- SQL Server
- MySql
- MariaDB
- PostgreSQL

Cloud Databases
- Azure CosmosDB
- Amazon DynamoDB

NoSQL
- MongoDB
- Redis
- LiteDB
- Apache Cassandra
- RavenDB
- CouchDB

Search Engines
- ElasticSearch
- Solr
- Sphinx

Caching
- Caffeine
- Distributed Cache
  - Java-Redis
  - Java-Memcached

Log Management System
- Sentry.io
- loggly.com

Log Frameworks
- log4j
- Zap
- TinyLog

Real-Time Communication
- atmosphere
- webbit

paracoders

Mockito — Mocking

JUnit
Citrus Framework
Truth — Frameworks — Unit Testing
Assertj — Assertion

cucumber-jvm
cukes — Behavior Testing — Testing
JBehave

Integration Testing

rest-assured — E2E Testing

Selenium

API Clients — GraphQL
okhttp — REST
retrofit

Good to Know Libraries
beanvalidation
bouncycastle
gson
shiro
RxJava

Task Scheduling — cron-utils
Aurora

RabbitMQ
Apache Kafka — Message-Broker
ActiveMQ
Azure Service Bus

Message-Bus — MicroServices
mbassador

Frameworks
Apollo
micronaut — RPC
Protocol Buffers
gRPC-Java — thrift

Java Patterns
Creational
Structrul
Behavioral
synchronization
Concurrency
Messaging
Stability

Keep Learning :)