ROADMAPS FOR AGILE, DEVOPS, AUTOMATION

Roadmaps are based on:

https://github.com/anas-qa/Quality-Assurance-Road-Map

https://medium.com/tech-tajawal/software-testing-the-road-map-5807a5590886

FYI : I have just covered the technical part

TEST ROADMAP FOR AGILE, DEVOPS, AUTOMATION

I have just made an example of free resources that test automation learners can use to learn test automation. There is alot of free resources out there.

Subjects

- **Version control** - Git & Github (Bitbucket)
- **Programming** - Java , Javascript, Python, C# , Json , XML ,Objective-C (Swift)
- **CI/CD** - Jenkins, Teamcity
- **Database** - SQL
- Docker
- **Mobile automation** - Appium
- **Web Automation** - Cucumber, Selenium WebDriver in Java
- TestNG, Protractor**,** Cypress.IO
- **API Automation** - Postman , SoapUI, ReadyAPI, Protractor, Robot Framework
- JUnit
- Fitnesse
- Devops
- Maven
- Specflow
- Spring
- AI testing, Machine learning, Microservices (Cognitive QA)
- Splunk
- TCP/IP
- Node.js

- Azure, Bash, Linux, TDD, Google, MongoDB
- Kubernetes
- Tosca
- Eggplant, Robot Framework
- Load Testing - JMeter, HP LoadRunner, Visual Studio etc.

There is more tools to learn but what i have seen on linkedin this is the most important things to learn.

Table of Contents

1.BEGINNER JAVA & INTERMEDIATE 4

2.GIT COURSES - BEGINNER **5**

3.SELENIUM WEBDRIVER - BEGINNER TO ADVANCED - DIFFERENT TUTORIALS **6**

4.JENKINS - ABSOLUTE BEGINNER **7**

5.SQL FOR BEGINNERS **7**

6.DOCKER - BEGINNER **9**

7.CUCUMBER - BEGINNER **10**

8.DEVOPS - QUICK GUIDE **10**

9.JUNIT BEGINNER **11**

10.POSTMAN **11**

11.JAVASCRIPT **12**

12.TESTNG - BEGINNER **12**

13.PROTRACTOR - BEGINNER **13**

14.MONGODB - BEGINNER TO ADVANCED **13**

15.LINUX - BEGINNER **14**

16.JSON - BEGINNER **14**

17.iOS - DEV - BEGINNER **15**
18.CI/CD & Devops - WHAT IS IT? - BEGINNER **15**
19.C# - BEGINNER **16**
20.XML- BEGINNER **16**
21.FITNESSE - BEGINNER **17**
22.SPECFLOW - BEGINNER **17**
23.SPRING - BEGINNER **18**
24.PYTHON - BEGINNER **19**
25.TDD **19**
26.APPIUM **20**
27.AI **20**
28.What is an API? **21**
29. Maven **21**
30. SoapUI **22**
31. Splunk **22**
32. Node.js **22**
33.TCP/IP **23**
34.Teamcity **23**
35.Tosca **23**
36.Eggplant 24
37.Kubernetes 24
38.Robot Framework 25

1.BEGINNER JAVA & INTERMEDIATE

Course name	Length	Author
Java (Beginner) Programming Tutorials	**84 modules**	YouTube
Java Tutorials for Complete Beginners	**75 modules**	Udemy
Java Video Tutorial	**94 modules**	Udemy
Java Svenska Spellista	**118 modules**	YouTube
Java for Absolute Beginners	**60 modules**	Udemy
Java Programming	**5 hours 55 min**	TestAutomationU
Java Programming for Software Developers	**366 modules**	Udemy
Java (Intermediate) Tutorials Java (Intermediate) Tutorials	**N/A**	Udemy
Learn Java	**44 modules**	YouTube
Learn Java 8		YouTube
Java Fundamentals		Udacity

2.GIT COURSES - BEGINNER

Course name	Length	Author
Version Control with Git | Udacity	**4 weeks**	**Udacity**
Version Control with Git | Coursera	**12 hours**	**Udacity**
Github Guides		**Github**
Atlassian Git and Github Tutorial		**Atlassian**
Git Tutorial		**Tutorialspoint**
Git and Github Crash Course		**YouTube**
Github Basics		**YouTube**
Github Tutorial for Beginners		**YouTube**

3.SELENIUM WEBDRIVER - BEGINNER TO ADVANCED - DIFFERENT TUTORIALS

Course name	Length	Author
Selenium WebDriver with Java	**2 hours 20 min**	**Udemy**
Selenium Tutorial for Beginners	**21 modules**	**Guru99**
Selenium Webdriver Basics	**33 modules**	**ToolsQA**
Selenium Tutorial	**53 modules**	**ArtofTesting**

Selenium Webdriver	**N/A**	**Tutorialspoint**
Selenium WebDriver - Beginner to Advanced	**N/A**	**Softwaretesting help**
Selenium WebDriver - JavaPoint	**N/A**	**Javatpoint**
Selenium WebDriver with Java	**18 modules**	**Test Automation University**

4.JENKINS - ABSOLUTE BEGINNER

Course name	Length	Author
Jenkins Beginners Tutorial		**Guru99**
Jenkins Tutorial	**26 modules**	**Tutorialspoint**
Jenkins - Udemy	**3h 24 min**	**Udemy**
Jenkins - Youtube	**19 modules**	**YouTube**
Jenkins - SimpliLearn	**1h 12 min**	**YouTube**
Jenkins for Beginners		**DevopsLearning**
Jenkins Word to Remember		**Codeship**

5.SQL FOR BEGINNERS

Course name	Length	Author
SQL Basics Youtube	**1 hour**	YouTube
SQL Tutorial for Beginners	**3 hour 20 min**	YouTube

SQL Tutorial - Tutorialpoint		Tutorialspoint
SQL W3schools		W3schools
Learn SQL		Javatpoint
Introduction to Databases and SQL Querying		Click Linksynergy
Oracle SQL - A Complete Introduction		Click Linksynergy
Microsoft SQL Server - An Introduction		Javarevisited
SQL Tutorial		YouTube
MySQL Crash Course		YouTube
MySQL Course		YouTube
MySQL Tutorial for Beginners		YouTube
MySQL Complete Course		YouTube
Learning MySQL		YouTube
What is Database Design?		YouTube
Oracle Tutorial		OracleTutorial

6.DOCKER - BEGINNER

Course name	Length	Author
From Zero to Docker		YouTube
Docker Curriculum		Docker Curriculum
Docker Tutorial for Beginners		Guru99
Get started with Docker		Docs Docker
Getting Started with Docker		YouTube
Docker Tutorial		Tutorialspoint
Scaling Tests with Docker		TestAutomationU
Interactive Docker Tutorial		Katacoda
Full Docker Tutorial		YouTube

7.CUCUMBER - BEGINNER

Course name	Length	Author
Cucumber Testing tutorial		Guru99
Cucumber Tutorial		Tutorialspoint
Learn Cucumber		ToolsQA
Cucumber tutorial for Beginners		Artoftesting
Cucumber with Selenium		Udemy
Cucumber selenium testing tutorial		Automationtesti nghub
Cucumber		Javatpoint

8.DEVOPS - QUICK GUIDE

Course name	Length	Author
Intro to DevOps	3 weeks	Udacity
Devops Tutorial		Guru99
What is Devops		YouTube
What is Devops		YouTube
What is Devops		YouTube
What is Devops		YouTube

9.JUNIT BEGINNER

Course name	Length	Author
JUnit with IntelliJ		YouTube
JUnit with Eclipse		YouTube
JUnit Tutorial with IntelliJ		YouTube
JUnit Tutorial		Tutorialspoint
JUnit Intro		ToolsQA

10.POSTMAN

Course name	Length	Author
The Basics of Using Postman		YouTube
Learn Postman		YouTube
Postman tutorial for Beginners		ToolsQA
How to Send API Requests		YouTube
Getting started with Postman		YouTube

11.JAVASCRIPT

Course name	Length	Author
Basic Javascript		Freecodecamp
Javascript		YouTube
The Modern Javascript Tutorial		Javascript.info
Javascript Tutorial		W3schools
Javascript Tutorial		Tutorialspoint
Learn Javascript Tutorial		Javatpoint
Javascript Intro		

12.TESTNG - BEGINNER

Course name	Length	Author
TestNG Tutorial		Tutorialspoint
What is TestNG		Guru99
TestNG Javapoint		JavatPoint
TestNG Tutorial with Selenium		ToolsQA
TestNG Tutorials for Beginners		Techbeamers

TestNG Tutorial		Softwaretestinghelp
TestNG Anotations		Swtestacademy
TestNG Tutorial		JournalDev

13.PROTRACTOR - BEGINNER

Course name	Length	Rating
Protractor Testing Tool for End to End		Softwaretestinghelp
Protractor Testing tutorial		Guru99
Learn Protractor Testing		Egghead.io

14.MONGODB - BEGINNER TO ADVANCED

Course name	Length	Author
Learn MongoDB		MongoDB University
MongoDB Tutorial		Tutorialspoint
Introduction to MongoDB		YouTube
Learn MongoDB		JavaTpoint
MongoDB Tutorial		QuackIT
MongoDB Tutorial		Studytonight
MongoDB Tutorial		Dataflair Training
MongoDB Tutorial		i2Tutorials

15.LINUX - BEGINNER

Course name	Length	Author
Linux Tutorial - Learn the Bash		Ryanstutorials
Linux - Unix Tutorial		Guru99
Linux Tutorial		Tutorialspoint
Learn Linux		Javatpoint
Linux Beginner Tutorials		Linux
Beginner and Advance Linux		Tecmint
Bash Guide		Machtelt Garrels
Linux Tutorials		Linuxconfig

16.JSON - BEGINNER

Course name	Length	Author
JSON Tutorial		Tutorialspoint
JSON introduction		W3schools
JSON Crash Course		Youtube
JSON Tutorial for Beginners		Youtube
Learn JSON		Javatpoint
The Complete JSON tutorial		Codewall

17.iOS - DEV - BEGINNER

Course name	Length	Author
Swift Programming Tutorial		YouTube
iOS App Development		Udemy
Swift Programming for Beginners		Udemy
Swift for Beginners		Udacity
Programming in Swift Fundamentals		RayWenderLich
Swift from Scratch		Weheartswift

18.CI/CD & Devops - WHAT IS IT? - BEGINNER

Course name	Length	Author
Continuous Integration		Thoughtworks
What is Continuous Integration		Atlassian
What is CI/CD		Nevercode
CI/CD Essentials		Codeship
What is CI/CD		Codemaze
CI/CD Explained		Amazon
Vad är Devops och CI		Rightpeoplegroup

CI, CD, Devops		FrontIT
CI och CD		AddQ

19.C# - BEGINNER

Course name	Length	Author
C# Full Course		YouTube
C# Beginner		Tutorialspoint
C# Tutorial		Guru99
C# Tutorial		W3Schools
Complete C# Tutorial		Csharp
C# Spellista		YouTube
C# Tutorial		ZetCode
Best C# Tutorials		Stackify
Learn C#		Hackr.io

20.XML- BEGINNER

Course name	Length	Author
XML Tutorial		W3Schools
Learn XML		Tutorialspoint
Learn XML		Webucator
XML Tutorial for Beginners		Beginnersbook
XML Tutorial		JavaTpoint
XML Tutorial		XMLMaster

21.FITNESSE - BEGINNER

Course name	Length	Author
Getting started with Fitnesse		DZone
Fitnesse for beginners		Softwaretestinghelp
Fitnesse Userguide		ButUncleBob
Automation using Fitnesse		InfoStretch
Sample project using FItnesse		AbodeQA
Using Fitnesse with .NET		RedGate

22.SPECFLOW - BEGINNER

Course name	Length	Author
Specflow+ Getting Started		Specflow
Specflow Tutorial		Softwaretestinghelp
Specflow Tutorial with Selenium and C#		ToolsQA
Specflow Beginner Tutorial		Ikeptwalking
Behavior Driven Development - Specflow		Tutorialspoint
Specflow Project Setup		Testautomationtribe

Specflow Tutorial		Softpost

23.SPRING - BEGINNER

Course name	Length	Author
Spring Tutorial		Tutorialspoint
Learn Spring		JavatPoint
Spring Guides		Spring IO
Spring Tutorial		Baeldung
Spring Core Tutorial		JournalDev
Spring Tutorial - Getting Started		Edureka
Spring Tutorials		HowtoDoinJava
Introduction to Spring Framework		Java2Blog

24.PYTHON - BEGINNER

Course name	Length	Author
Python Tutorial		W3Schools
Python Tutorial		Tutorialspoint
Python the basics		LearnPython
Python Tutorial for Beginners		YouTube
Learn Python		YouTube
Python 3 Tutorial		Programiz
Python Tutorial for Beginners		Guru99
Learn Python Tutorial		JavatPoint
Best Python Tutorials		Freecodecamp
Python Tutorial		JournalDev
Learning Python		Docs Python Guide
Python Tutorial for Beginners		Intellipat
Getting Started with Python		Data Flair Training
Python Basics		Edx

25.TDD

Course name	Length	Author
What is TDD?		Guru99
TDD		Freecodecamp

Introduction to TDD		Hackermoon
What is TDD?		Squash
What is TDD?		Techopedia
What is TDD?		YouTube
TDD - Easy Explained		YouTube
Introduction to TDD		AgileData

26.APPIUM

Course name	Length	Author
Appium Tutorial		ToolsQA
What is Appium?		Guru99
Appium		Swtestacademy
Appium for Beginners		Edureka
Step by Step Appium		Automationstesting
Getting started Appium		Appium

27.AI

Course name	Length	Author
Introduction to AI		Udemy
How to test Software that uses AI and Machine Learning		Dzone
5 Ways AI will change Software testing		Techbeacon

What is AI?		Guru99

28.What is an API?

Course name	Length	Author
What is an API?		YouTube
Web Services API		Udemy

29. Maven

Course name	Length	Author
Maven Fundamentals		Tutorialspoint
Maven in 5 Minutes		Maven Apache
Apache Maven Tutorial		Baeldung
Learn Maven Tutorial		Javatpoint
Maven Tutorial		Jenkov
Maven Tutorial for Beginners		Guru99
Maven Basics for Java		Devdungeon
How to get Started with Maven		Adityasrdir
Building Java Projects with Maven		Spring.io
Beginners Guide to Creating a project with Maven		Dzone

30. SoapUI

Course name	Length	Author
What is SoapUI?		Guru99

31. Splunk

Course name	Length	Author
Splunk Tutorial		Tutorialspoint
What is Splunk?		Guru99
Splunk Tutorial		Intellipaat
What is Splunk?		Geek University
Splunk		Docs splunk
Splunk Fundamentals		Splunk

32. Node.js

Course name	Length	Author
Node.js		W3Schools
Node.js Tutorial		Tutorialspoint
Learn Node.js in 3 days		Guru99
Learn Node.js		JavatPoint
Node.js Tutorials		Tutorialsteacher
Learn Node.js		YouTube
Node.js Tutorial for Beginners		YouTube

Node.js Tutorial Step By Step		Airpair

33.TCP/IP

Course name	Length	Author
TCP/IP		Tutorialspoint
IPV6		Tutorialspoint
TCP/IP Basics		Xahlee.info
TCP/IP		W3schools

34. Teamcity

Course name	Length	Author
TeamCity Basic		
Creating a project in Teamcity		
Teamcity Tutorial		
Getting started with Teamcity		
TeamCity User Guide		

35.Tosca

Course name	Length	Author
Tosca Guide		Udemy
Tosca Test Automation Suite		ToolsQA
Tosca TestSuite Tutorial		AutomationTalks

Tricentis Tosca		YouTube

36.Eggplant

Course name	Length	Author
Eggplant Tutorial		YouTube
Eggplant Training and Certifications		Eggplant
Eggplant Videos		Testplant
An Overview of Eggplant		SearchSoftwareQuality

37.Kubernetes

Course name	Length	Author
Learn Kubernetes Basics		Kubernetes.io
Step By Step Kubernetes		Auth
Kubernetes Tutorial		Tutorialspoint
Kubernetes Tutorial		Guru99
70 Best Kubernets Tutorial		AquaSec
Introduction to Kubernetes		DigitalOcean
Kubernetes - Learn The Basics		Dev.to
Självstudie om Kubernetes		Microsoft

38.Robot Framework

Course name	Length	Author
Robot Framework		Tutorialspoint
Robot Framework Tutorial		Udemy
Robot Framework Tutorial		Testproject.io
RPA		Devopedia
Robot Framework		Testingbot