ROADMAP TO BECOMING A TEST AUTOMATION ENGINEER

1

GET A STRONG FOUNDATION IN TESTING
Start with increasing your software testing knowledge. Without understanding the foundations of the testing profession, you won't be able to either create an automation testing strategy or pick and understand which tests to automate.

2

PICK A TECHNOLOGY
Pick one type of technology, for example: desktop, web, API or web services, mobile applications, and focus on it. Once you master one of them, you can start learning another kind of application.

3

CHOOSE A LANGUAGE
Java and Python are the most common languages for test automation. You can pick one of them, or start learning the stack your application is developed in. Try to find the right balance between learning theory and putting it all into practice.

4

DECIDE WHICH TOOL TO USE
The choice of the tool depends on the choice of the technology you've picked previously. If you decided to start learning how to automate web applications, Selenium could be a great candidate.

5

TEST AUTOMATION STRATEGY AND PLANNING
Learn how to develop a test automation strategy, as well as explore other considerations about starting test automation in an organisation.

6

INTEGRATION WITH BUILD MANAGEMENT TOOLS
Gain a deeper understanding of DevOps and agile methodologies. You will need to understand how you can achieve reliable continuous delivery of new features when the build and a lot of the testing are automated.
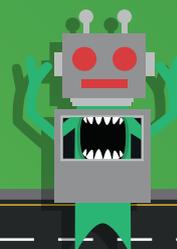
7

BUILDING UTILITIES/TOOLS TO SUPPORT DAY TO DAY TESTING
The other thing you can do is to create utilities and tools to help automate repetitive and boring tasks or get CI/CD system components wired up.

8

OTHER THINGS TO LEARN
There is a never ending list of technologies you could learn to upskill even more. You could cover extra topics such as performance and mobile testing, TDD, ATDD, and BDD.

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