StrimQa

# CERTIFICATE

Id: 66578f0f48d40a4f33c659eb
Group name: 23Q4

Mentor: Egor Pavlovets
Is proud to confirm that student:

# Ilya Zazulia

has successfully accomplished entire program of the course and successfully completed Diploma project

Online course learning program: Fullstack QA course
8 months, 150 hours of classes with the mentor: Test automation on Java, Python; Gitlab CI/CD; Allure; Unit, Service, Mobile UI. Web UI, API tests automation; automation of Test Pyramid; Docker; live coding; code review.

Pavlovets Egor
strimka.by

Issue date 30.05.2024

2024-05-30 Application to the certificate id: 66578f0f48d40a4f33c659eb

Certificate is issued by: STRIMKA LTD https://www.strimka.by
Certificate is signed by: Pavlovets Egor, mentor and STRIMKA LTD CEO

Course name: Fullstack QA
Course length: 8 months, 150 hours
Course program:

1. Fundamentals of Java 21, JDK, JRE
    a. Language syntax, OOP, test automation patterns, code review with use of Java code convention
    b. Test Automation Project creation and setup with IntelliJ IDEA CE, Maven, JUnit
    c. Advanced Test Automation Project setup with Allure, Gitlab CI pipelines, git version control, maven cli
    d. Advanced Test Automation Project setup with Maven sub-modules, running Unit and Service tests from modules
    e. Building Test Pyramid, explaining on practice each level of the Pyramid, creating tests on all 3 levels
2. Practice usage of test automation libraries and tools, Java projects
    a. JUnit 5: parallel execution, unit tests, lifecycle, tests isolation and management
    b. Reporting via standard JUnit console output; Reporting via Allure
    c. RestAssured library usage for API tests, serialization and deserialization via Gson and Jackson libraries
    d. WebDriver usage for UI tests, screenshots, reports, all standard WebDriver methods and project setup
    e. Javalin web-server library practical usage for RESTful service creation, API testing
    f. CLI application creation with user dialog and tests on Unit and Service levels
    g. Multithreading API tests with OKHttp client, URL Java class, RestAssured library
3. Fundamentals of Python 3, PEP8, PIP, Environment setup
    a. Python setup, Python project setup with PyCharm, Language syntax, dependency management with venv and pip
    b. Code review with PEP8 code convention, Gitlab CI pipelines setup
    c. PyTest, fixtures, requirements, frameworking Unit and REST API tests (requests lib)
    d. Advanced PyTest setup with Allure, code reuse, fixtures, context managers, setup/teardown method
    e. Playwright UI tests with Allure reports and inside the GitalbCI pipeline, video recording, screenshots, HAR logs capturing, traces capturing
    f. Creation of Docker containers, usage of docker-compose, troubleshooting not running or failing containers
    g. Database and tests setup to provide test data into the PyTest API/UI tests in the docker compose created environment
    h. Appium UI tests implementation on Emulators, inside Docker Emulators, on real Android devices
4. Additional professional trainings
    a. Livecoding, Solution of: OOP tasks, Algorithmic tasks, all required software setup
    b. Regex practice, xPath, CSS selectors practice
    c. Android SDK practice: adb, sdk setup, sdk tools, logcat logs, adb shell input tap|swipe|keyevent etc
    d. Android SDK Emulator management practice
    e. Google Chrome DevTools practice
    f. 39 Practice programming home tasks with required minimum 100 hours to get them done by student
    g. Four big gitlab projects with CI/CD pipelines, reports, UI, API, Unit tests