



CERTIFICATE

Id: 66578f0f48d40a4f33c659eb

Group name: 23Q4

Mentor: Egor Pavlovets

Is proud to confirm that student:

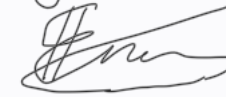
Ilya Zazulia

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
strimqa.by 

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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 GitlabCI 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