RAUF MUHAMMAD
FULL STACK AUTOMATION ENGINEER

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PROFILE Dedicated and highly skilled Senior Full Stack Test Automation Engineer with more than 3 years of experience in automation. Hands-on experience in automating Websites, android apps, IOS, and APIs. Hands-on experience in automating huge projects of E-Commerce Platforms. Write Robust test automation code which gives results in seconds. Also use Machine Learning and Artificial Intelligence in testing frameworks to achieve many important, useful benefits and features. I have a big role in improving the reliability, functionality, and usability of software systems. I am a self-motivated person, full of confidence, and never give up in any situation.

TECHNICAL SKILLS   Cypress, Selenium, Appium, Page Object Model, Mocha, PyTest, TestNG, BDD ,Cucumber, Behave, Seleniumbase, Playwright**,** Object Oriented Programming, Jenkins for CI/CD, Jira, Confluence, TestRail, Git, SQL, Kobiton, End Test, ACCELQ, Postman, Rest Assured, Swagger , JMeter, Black box testing, Agile/Scrum , DOM, Unit testing, Regression Testing, Integration Testing, Exploratory Testing, CSS, GitHub, HTML, JSON, XML, Manual Testing, QA Testing and Methodologies, Test Cases and Test Plans, End to end Testing.

PROGRAMMING LANGUAGES Python, JavaScript, Java.

FRAMEWORKS WORKED-ON FOR AUTOMATING WEBSITES

- Design POM structure. Worked on Cypress , Mocha framework for automating websites. Create my own custom commands for efficient testing. Use hooks, tags, assertions, and everything else which is present in cypress mocha framework according to needs.
- Worked on Java, selenium, TestNG framework for automating websites.
- Worked on Python , Pytest, Selenium, Seleniumbase framework for automating websites.
- Also integrate my framework with machine learning and artificial intelligence to achieve many useful features and benefits.
- Also worked on Playwright for automating websites. If using JavaScript, then integrate it with mocha framework and if using python then integrate it with pytest framework.
- Also automated websites using BDD Approaches(Given , When, Then).
- Also used ACCELQ tool for automation of web and also for SAAS solutions.

FRAMEWORKS WORKED-ON FOR AUTOMATING ANDROID AND IOS APPS

- Design POM structure. Worked on Appium for automating android apps. Use android studio, emulator and also real devices. Use Appium inspector and Ui Automator for inspecting elements.
- Worked on Appium for automating IOS apps. Use Xcode, simulator and Appium inspector for inspecting elements.
- Also worked on XCUITest for IOS Apps.
- Also used kobiton tool for automation of mobile devices.
- Also used ACCELQ tool for automation of mobile devices.

FRAMEWORKS WORKED-ON FOR AUTOMATING API's

- Worked on Java, Rest Assured , TestNG framework for automating Api's.
- Worked on Python, Requests module, Pytest framework for automating Api's.
- Worked on karate framework BDD approach for automating Api's.
- Also worked on cypress, mocha framework for Api testing.
- Automated Json and xml responses of Api's .Do all the validations and everything else which is required for automating Api's.

Note: For Automation of websites, mobile apps, and Api's. I choose and use framework , tools, and technologies according to the project requirements, needs and specifications.

TEST REPORTING AFTER AUTOMATION After automating tests, I report tests by generating logs, generate HTML Reports, generate Allure Report(which is a detailed and user-friendly report), generate Screenshots on failure, generate videos. Generate Excel(csv) File Reports and also generate PDF File Reports as well.

OPERATING SYSTEM   Windows, Mac, Linux, Android, iOS.

EXPERIENCE

Job at Silverdale Technology Pvt Ltd
  Senior Test Automation Engineer – (1 Year - Currently Working)
- Automate websites , android apps, IOS and API's.
- Automated E-Commerce Platforms. Automated Full Order Placement Journey, CRM Flow, Shop page flow, Sales Module flow, Purchase flow, Inventory Flow, Add to cart flow, Delivery Flow, Shipment Flow, Payment Flow etc. In short, I can automate every flow of E-Commerce Platforms. Write robust test scripts of all these flows which give results in seconds.
- Currently working on automating this huge project **https://harvestright.com/** It is an e-commerce project, a refrigeration brand in which customers come and buy their refrigerators and products. Automate every flow of this project and report bugs in seconds.
- Design framework using Cypress , Mocha for automating websites. Create my own custom commands for efficient testing. Use hooks, tags, assertions, and everything else which is present in cypress mocha framework according to needs.
- For some websites also design Hybrid Testing Framework using Python, Selenium, Seleniumbase, Page Object Model, PyTest, Jenkins, Git. Also use Python Built in functions which provide extra functionality and features for automating tests.
- Also integrate my framework with Machine Learning and Artificial Intelligence to achieve some useful functionalities and features that is Visualization Testing in which our code just acts like a human eye and checks whether the text or field is not overlapping, checks whether the size, shape, color, everything is according to the requirements or not and after that report bugs in seconds.
    - With Machine Learning and Artificial Intelligence also achieve Behavioral Testing and Intelligent Validation in which ML models can learn system behaviors and patterns, allowing for more effective validation of complex systems against expected behaviors.
    - With Machine Learning and Artificial Intelligence also achieve Test Automation and Intelligent Scripting in which AI can aid in creating smarter, self-healing test automation frameworks that adapt to changes in the application and fix scripts when they fail due to minor UI changes or updates.
    - With Machine Learning and Artificial Intelligence also achieve Predictive Analytics for Defect Detection in which AI can analyze historical data to predict potential defects or areas prone to issues, allowing testers to focus efforts on high-risk areas.
    - With Machine Learning and Artificial Intelligence also achieve Anomaly Detection in which AI can identify anomalies in test results or system behavior, flagging potential issues that might not be caught by traditional testing methods.
- I design framework in such a way so I can achieve these things as well such as run specific tests in groups for regression and sanity testing, run tests in parallel for parallel execution, run tests one by one in sequence,
  I use markers to name every test So in this way I can also run only one test which I want by its markers name which I specify. So, in this way I can run one , two or multiple tests depending on the situation, tell about priority and severity of tests on reports, do cross browser testing as well, do Parametrized Testing to run the same test function with multiple sets of input data.
- Use Plugins that extend its functionality. Use plugins for various purposes, including test coverage, parallel test execution, test parameterization, and more.
- Use Hooks that allow to customize and extend the testing process. Use hooks to perform actions at different stages of test execution.
- Utilized Jenkins for continuous integration, enabling automated testing as part of the CI/CD pipeline.
- Designed and implemented automated test scripts for android applications using Appium, Android Studio.
- Designed and implemented automated test scripts for IOS applications using Appium, Xcode, XCUI.
- Designed and implemented automated test scripts for RESTful APIs using Postman and Rest Assured, ensuring data integrity and functionality. Use Postman, Rest Assured for API automation and use Swagger for API documentation.
- Train and guide QA Engineers in automation and also train them how they can integrate their framework with Artificial Intelligence and Machine Learning to achieve some useful features and benefits.

Job at Magma Systems Pvt Ltd

Senior QA Automation Engineer – 2 Years
- Automate websites using cypress and mocha framework.
- Designed and implemented automated test scripts for android applications using Appium, Android Studio.
- Designed and implemented automated test scripts for IOS applications using Appium, Xcode, XCUI.
- Designed and implemented automated test scripts for RESTful APIs using Postman and Rest Assured,
- Identify, analyze, create, and track bugs using tools like JIRA. Identify, analyze, create, and track bugs using tools like JIRA.
- Test case creation and execution in JIRA. Used Jira for bug tracking and issue tracking .
- Perform testing-related tasks based on priorities.

- Do smoke testing, integration testing, functional testing, regression testing, black box testing etc.
- Also do Manual Testing as well.
- Use JMeter for performance testing.
- Attend Scrum meetings, demo meetings, and kickoff presentations.
- Perform Functional and Non-Functional testing. Create functional and non-functional requirements from different scenarios. Also Write positive and negative test cases from different scenarios.
- Also worked with US Clients to gather requirements.
- Trained and managed junior QA's. Mentored and trained junior QA engineers in test automation best practices, improving team efficiency.
- Write test cases from different scenarios write effective test cases that cover different scenarios and requirements.

Job at NUTech Pvt Ltd
 SQA Analyst (Manual and Automation)
- Design Hybrid testing framework for automation using JAVA, Selenium, Page Object Model, TestNG, BDD, Jenkins.
- Done web automation using Selenium.
- Done mobile automation using Appium.
- Also automate API's using rest assured.
- Identified and reported defects through detailed bug reports and worked closely with developers to track and resolve issues.
- Participated in daily stand-up meetings and agile development processes to ensure that QA activities aligned with project timelines.
- Assisted in defining test strategies and test plans for multiple software projects.
- Performed thorough functional, integration, and regression testing, resulting in higher software quality and fewer production defects.
- Collaborated with the team to create, maintain, and update test cases based on product requirements and user stories.
- Conducted load testing using JMeter to assess system performance under various scenarios.
- Participated in test case reviews and peer code reviews to maintain high testing standards.
- Used Postman for API testing. This included sending HTTP requests, Get, Put, Post, Delete etc.

PROJECTS WORKED-ON:
Worked on these E-Commerce Projects as follows, automated every flow of these projects and report bugs in seconds after running automation script.
  1) **NES(Northcoast Equipment Specialists) : https://www.nesequipment.com/**
An E-Commerce Website and Mobile Application, they provide The BEST Automotive Equipment Distributor, Installer, and Service Center located in Northeast Ohio, USA.

  2) **Harvest Rights : https://harvestright.com/**

An E-Commerce Website and Mobile Application, they provide their own products such as Freeze Dryer, accessories, food etc. located in Salt Lake City, Utah, USA.

  3) **HydroSpray : https://www.hydrospray.com/**

An E-Commerce Website and Mobile Application, they sell and manufacture superior product lines of car wash, fleet wash, and pressure wash equipment. They provide complete service and support to make it all work together.

  4) **Flavorah : https://www.flavorah.com/**

An E-Commerce Website, they provide their products such as Liquid Flavor Concentrates located in the USA.

  5) **OneSourcePrintSolution (OSPS) : https://osprint.com/**

An E-Commerce Website, they offer high quality sheet-fed and web offset printing, large and small format digital printing, branded merchandise, direct mail, and fulfillment services to their customers.

I worked on many other projects as well. In short, these projects are enough to give an idea on which projects I have worked on.

CERTIFICATION   Website Automation   **EDUCATION**   Air University, Islamabad
                     Appium Automation   Bachelor's in Computer Science
                     Python , JavaScript

SOFT SKILLS   Motivate People ,Confidence , Problem Solving , Positive Attitude, Teamwork, Eager to Learn new technologies, Never Give Up.