Muhammad Asim

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Lead Software QA Engineer

Objective:

Dedicated and highly skilled Lead Software QA Engineer with over 9+ years of experience in designing, developing, and executing manual and automation test scripts, ensuring the quality and reliability of software applications, seeking a challenging role in a dynamic organization to leverage my expertise in test automation and continuous improvement.

Professional Summary:

- Over 9+ years of experience in Lead QA Engineering, **QA Automation** and **manual testing**, specializing in test planning, test design, test automation, and continuous integration.
- Proficient in various automation testing tools and frameworks, including **Selenium**, **Playwright, Appium**, **Cypress, Nightwatch**, **JUnit, TestNG,** and **Cucumber**.
- Strong expertise in programming languages such as **Java**, **Python**, **C#** and **JavaScript/Typescript**, enabling the development of efficient test scripts and shell Scripting.
- Having Strong proficiency in mobile automation testing tools such as **Appium** and **Detox**.
- Extensive experience in Agile and Scrum methodologies, collaborating with cross-functional teams to deliver high-quality software.
- Proficient in **C#**, **Python**, **Typescript,** and **Shell scripting**.
- Exceptional problem-solving skills and a keen eye for detail, ensuring the identification and resolution of defects.
- Experience working in **HTML**, **CSS**, and knowledge of **HTTP** and Web Services.
- Experience with cloud-based testing platforms such as **Browserstack**, **AWS Device Farm** or **Firebase Test Lab.**
- Having experience with Continuous Integration/Continuous Deployment (**CI/CD**) pipelines and version control systems (e.g., Git).
- Design, develop, and maintain end-to-end automated test suites using tools **Detox & Testcafe** and cross-platform frameworks like **Appium**.
- Excellent communication and documentation skills, enabling effective reporting of test results and progress to stakeholders.
- Testing **AI/AML** applications and their use cases.
- Thoroughly testing both **front-end UI** and **back-end API**.
- Experience applying **AI/ML** techniques to real-world problems in various domains i.e. healthcare, finance, e-commerce, etc.
- Extensive experience in reviewing and analyzing Business Requirements and creating Test Plans, Test Cases, Test Scripts, Test Estimation & Requirement Traceability Matrix.
- I have expertise in testing microservice architecture, **Linux** & **Shell scripting**, **CI/CD**, **AWS services**, **Docker.**
- Experienced in writing custom code/solutions.
- Experienced in using Jenkin as Continuous Integration server to configure with Maven.
- Extensive experience in **Manual Testing**, **GUI**, Regression, Functional, Integration, System, User Acceptance(UAT), Sanity, Performance, Stress, Reliability, Compatibility, Cross Browser, Data Migration, **ETL**, Database Testing & mobile

Application Testing.
- Ability to design, train, and evaluate machine learning models using appropriate algorithms and techniques.
- Proficient in API testing using **SOAPUI** Tool, **XML** and expert in reading WSDL.
- Experience in Functional, Data Driven Testing, Load Testing.
- I have working knowledge HPC environment Experience and with using Agile SW development tools
- Experience working with Databases such as **SQL server**.
- Sound knowledge on Object Oriented Programming (**OOP**) concept. Extensively used Java for test case automation. Experience in implementing **TDD** and **BDD**.

Professional Experience:
Lead Software QA Engineer:
Innroad - NY US
March 2021 - Present
New York, United States · Remote

Responsible for leading the QA team to ensure the delivery of high-quality software products. You will develop and implement testing strategies, manage testing processes, and collaborate with cross-functional teams to meet quality standards and project deadlines.

Key Responsibilities:

1. **Leadership and Team Management:**
   - Lead, mentor, and manage the QA team, fostering a collaborative and high-performance environment.
   - Provide guidance and support to team members, ensuring continuous skill development.
   - Allocate resources effectively to meet project requirements and deadlines.
2. **Test Planning and Strategy:**
   - Develop and implement comprehensive test plans and strategies, including manual and automated testing approaches.
   - Ensure test plans align with project requirements and quality standards.
   - Continuously evaluate and improve testing processes and methodologies.
3. **Test Execution and Reporting:**
   - Oversee the execution of test plans, ensuring thorough testing of software applications.
   - Identify, document, and track defects using bug tracking systems.
   - Provide detailed test reports and metrics to stakeholders, highlighting testing progress, issues, and risks.
4. **Collaboration and Communication:**
   - Collaborate with development, product management, and other cross-functional teams to understand project requirements and deliverables.
   - Facilitate communication between QA, development, and business teams to ensure alignment on quality goals.
   - Participate in project planning, review meetings, and retrospectives.
5. **Quality Assurance Practices:**
   - Implement and enforce best practices in QA, ensuring adherence to industry standards and company policies.
   - Continuously monitor and evaluate product quality, recommending improvements where necessary.
   - Stay updated with emerging trends and technologies in QA to enhance the team's capabilities.

6. **Automation and Tooling:**
    ○ Develop and maintain automated testing frameworks and scripts.
    ○ Integrate automated tests into the CI/CD pipeline to ensure efficient and continuous testing.
    ○ Evaluate and implement appropriate testing tools and technologies to improve testing efficiency and coverage.

Senior Software QA Engineer:
Fundthrough
Dec 2018 - Feb 2021
New York, United States · Remote

- **Lead** the design and implementation of an automated testing framework using **Cypress, Selenium Web Driver** and **Java** for web applications, reducing testing time by 40%.
- Developed and maintained automated test scripts using **Python** and **Selenium WebDriver,** improving test coverage and reducing manual testing efforts.
- Designing and writing a testing framework and tools from scratch to enhance the quality testing.
- As a Lead Automation Engineer, I adept at developing and implementing strategic plans for automation testing. This includes identifying areas where automation can bring the most value, defining automation frameworks, and creating roadmaps for successful automation implementation.
- Collaborated with the development team to integrate test automation into the **CI/CD** pipeline, enabling continuous testing and faster feedback.
- As **Lead Automation Engineer** is responsible for assigning tasks, providing guidance on best practices, and fostering a collaborative and efficient work environment.
- Lead QA team in documenting User Acceptance Test report and reporting defect resolution.
- Created and maintained test scripts for smoke, regression, and performance testing, ensuring the software's stability and reliability.
- Experience with **Nightwatch** includes testing web applications across multiple browsers to ensure consistent performance and compatibility, identifying and addressing any browser-specific issues or discrepancies in behavior.
- With a deep understanding of **automation testing tools, scripting languages**, and **testing frameworks**, I can make informed decisions about tool selection, architecture design, and test automation strategy.
- Develop test automation code in Python programming to test web-based UI and DB applications
- Experience in cleaning, preprocessing, and transforming data, as well as selecting and engineering relevant features for machine learning models.
- Worked with SQL and UI path testing.
- I have utilized Nightwatch to test both small-scale and large-scale web applications, adapting the test suites to meet the specific requirements of each project. The ability to run parallel tests and integrate with Continuous Integration (CI) tools like Jenkins has significantly enhanced our testing workflow and efficiency.
- Conducted thorough API testing using **Postman** and REST Assured, verifying the functionality of critical endpoints and data consistency.
- Developed and executed automated test cases for mobile applications using **Appium**, enhancing the mobile app's quality.
- Worked with AWS cloud testing

- Having experience in modeling, questioning, explaining, and elaborating on test ideas.
- Performed cross-browser testing and ensured compatibility with various browsers, including Chrome, Firefox, and Safari.
- Experience with deep learning architectures such as convolutional neural networks (CNNs), recurrent neural networks (RNNs), and transformers for tasks like image recognition, natural language processing, and sequence modeling.
- Investigated and reported defects, worked closely with the development team to resolve issues, and retested fixes.
- Led knowledge-sharing sessions to improve the team's automation skills and stay up-to-date with the latest testing trends and tools.
- Regularly updated test documentation, ensuring that it accurately reflected the application's functionality.
- Involved in design and implementation of Selenium WebDriver automation framework for smoke and regression test suites (TestNG and Maven).
- Involved in testing the application utilizing the **Scrum (Agile) methodology**.
- Involved in designing of automation framework to be used in **UI testing** with Selenium.
- Used the Firebug to inspect the **Xpath** of the web elements and **Eclipse IDE** for Java development.
- Identified, Reported and Tracked Defects using Quality Center test management tool.
- Manually tested, verified and validated that the product meets user requirements.
- Developed and executed **SQL queries** to verify the proper insertion, deletion and updates into the Oracle supporting tables and cubes.
- Reviewed database test cases according to assigned Requirements to validate reports by retrieving data with complex SQL queries from oracle database.
- Performed End-to-End testing of database to check data integrity using SQL queries.
- Performed testing for cloud-based file management system i.e. **S3, Azure, Backblaze B2, Google Cloud, Openstack** and **SMB/CIFS** and experience with **LDAP** and **LDAPS**

Project Engineer:
PriceLess
April 2015 – Oct 2018
New York, United States · Remote

- Involved in test cases review by development team, product management and modified the test cases based on their feedback.
- Prepared Test Plan which included testing objectives, testing phases, scenarios and test environment after a thorough analysis of the business rules.
- Developed Automation framework using Selenium Web Driver.
- Performed functional testing to identify various critical points in the application and automated it by using Selenium Web-Driver with TestNG.
- Created and enhanced numerous test scripts to handle changes in the objects, in the tested application's GUI and in the testing environment using Selenium WebDriver.
- Developed automation framework for Selenium WebDriver in Modular Framework model.
- Tested applications developed in Java with J2EE framework.
- Used Selenium WebDriver for writing test scripts for regression test coverage.
- Design & Develop data driven framework using Selenium WebDriver, TestNG and Apache POI API.
- Created Selenium web-driver automation scripts using Java to validate functionality on various browsers.

- Developed and Implemented automation using Selenium WebDriver and Java. Used Eclipse IDE to develop & debug the code.
- Used Maven to build and run the Selenium automation framework. Once the script got over, framework used to send the automation reports over emailInvolved in the Continuous Integration of the automation framework with Jenkins.
- Integrated the test suites to Jenkins to execute them automatically after every successful deployment.
- Worked on Data Driven Framework and MVC for Automation test scripts.
- Used Xpath and DOM to work with dynamic and static objects in Selenium.
- Performed functional testing of SOAP and RESTFUL Web Services using Postman.
- Validated SOAP responses by using assertions like Xpath match, schema compliance, contains, SOAP fault etc.
- Used Git as code repository and Code Collaborator to manage code reviews.
- Designed data-driven testing framework inSelenium and captured data dynamically from web controls.
- Created manual test cases, reviewed with different stakeholders to validate the functionality.
- Web Service Testing Conducted backend testing using SQL queries to validate data for database.
- Environment: Manual Testing, MS Office, OnTime, BaseCamp, Windows, iOS, Android, Mercury Quality Center, MS Visio, Postman, E-Commerce Applications

Education:

2012-2016
BS from Lamar University

Skills:
- **Programming Languages:** Java, Python, JavaScript, C#
- **Automation Tools:** Selenium Webdriver, Appium, JUnit, TestNG, Cucumber, Cypress, Playwright, Night Watch, Ghost Inspector, Protractor.
- **Version Control:** Git
- **Automation Testing Framework:** BDD/TDD, Cucumber, Data Driven, Detox, Keyword Data Driven, Hybrid Data Driven, TestCafe
- **CI/CD:** Jenkins, Travis CI
- **Test Management Tools:** JIRA, TestRail
- **API Testing:** Postman, REST Assured, AWS cloud testing
- **Performance Testing:** JMeter
- **Databases:** SQL, MongoDB
- **Operating Systems:** Windows, Linux, macOS
- **Collaboration Tools:** Slack, Microsoft Teams
- **Agile Methodologies:** Scrum, Kanban

INTERPERSONAL SKILLS

- Strong analytical, presentation and reporting skills.
- Enthusiasm to learn, team facilitator and hard worker.
- Excellent Interpersonal and organizational skills
- Ability to prioritize workload.