

MOHAMMED LUKMANUDHIN

AUTOMATION TEST ENGINEER

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SUMMARY

Experienced Automation Tester with 6 months hands-on experience in the healthcare domain, specializing in Playwright and TypeScript. Demonstrated ability to significantly improve testing efficiency and overcome complex challenges. Proficient in Java, JavaScript, Selenium, Appium, RestAssured, Postman, TestNG, and Cucumber.

EDUCATION

- Bachelor of Computer Science** 2019-2022
The New College, University of Madras, Royapettah, Chennai - 600014
- Master of Computer Science** 2022-2024
The New College, University of Madras, Royapettah, Chennai - 600014

TECHNICAL SKILLS

Programming Languages: Java, JavaScript, TypeScript.

Test Automation Frameworks: Selenium WebDriver, Appium, Playwright.

Testing Frameworks: TestNG (Unit Testing Framework), Cucumber (Behaviour Driven Development).

API Testing: Postman, RestAssured (Java).

Continuous Integration/Continuous Delivery (CI/CD): Jenkins.

Version Control: Git.

Project Management: Azure Devops.

Process & Collaboration: Agile/Scrum Methodologies.

EXPERIENCE

Manar Binary Innovations

Chennai, Tamil Nadu

Automation Test Engineer

April 2024 – October 2024

- Led end-to-end testing of comprehensive healthcare management platforms, including modules for patient records, prescription tracking, and financial management.
- Reduced test execution time by 60% through the implementation of storage state, dramatically improving the speed and efficiency of the testing process.
- Designed and implemented a robust OTP verification solution using API onboarding and disposable mailbox services, enabling automated testing across all environments
- Enhanced test parallelization by implementing multiple disposable mailbox services with dynamic switching capabilities, improving system resilience and test reliability
- Contributed to the continuous improvement of the QA process by regularly updating test scripts and methodologies to adapt to evolving application features and requirements.
- Collaborated closely with the development team to advocate for testability and best practices in code quality, leading to a noticeable reduction in critical post-release issues.
- Developed and maintained comprehensive automated test suites using Playwright, ensuring high-quality software releases
- Utilized version control (e.g., Git) to manage and track changes in test scripts, ensuring team collaboration and code integrity.

- Operated within an Agile development environment, actively contributing to sprint planning, daily stand-ups, and retrospective meetings, which enhanced team dynamics and product delivery timelines.

CERTIFICATIONS

Internship in Software Testing.

January 2024 - April 2024

Pantech e Learning.

Chennai, Tamil Nadu

Achievements:

- Developed proficiency in Java programming for designing and implementing test automation scripts.
- Mastered Selenium for automating web application testing across multiple browsers.
- Acquired hands-on expertise in TestNG for creating robust unit testing frameworks.
- Gained skills in Cucumber for Behavior-Driven Development (BDD) to enhance collaboration between technical and non-technical teams.
- Learned Agile methodologies and test management best practices for efficient project delivery.
- Explored defect tracking and reporting using tools like JIRA to ensure product quality.
- Practiced writing test cases and executing test plans for functional and regression testing.
- Strengthened debugging and problem-solving skills through real-world testing scenarios.
- Built foundational knowledge of API testing using tools like Postman for backend validation.
- Collaborated with peers to simulate real-time software development and testing workflows.

Tools and Technologies: Java, Selenium, TestNG, Cucumber, Jira.

Internship in Data Analytics Using Python.

April 2023 - May 2023

Computational Intelligence Research Foundation (CIRF).

Chennai, Tamil Nadu

Achievements:

- Completed a specialized internship program focusing on Data Analytics using Python.
- Mastered the use of Python for data analysis, leveraging libraries such as Pandas for data manipulation, NumPy for numerical computations, and Matplotlib and Seaborn for advanced data visualization.
- Conducted exploratory data analysis (EDA) on real-world datasets, identifying trends, patterns, and outliers to derive actionable insights.
- Developed and presented data-driven visualizations to communicate findings effectively, enhancing decision-making processes.
- Gained proficiency in data preprocessing, including cleaning, transforming, and structuring datasets for efficient analysis.
- Explored statistical methods to validate data findings, ensuring accuracy and reliability in analytical outcomes.
- Recognized for being a keen candidate, demonstrating exceptional skill and dedication in the field.

Tools and Technologies: Python, Pandas, NumPy, Matplotlib, Seaborn.

ACHIEVEMENTS

1. Test Automation Transformation:

- Reduced test execution time by 60% through the implementation of storage state, dramatically improving the speed and efficiency of the testing process.
- Implemented a scalable automation framework that increased test coverage by 60% for critical patient-facing features.

2. Innovative Authentication Testing Solution:

- Developed a groundbreaking solution for automating complex login processes using API onboarding and disposable mailbox services, resolving a long-standing challenge in healthcare software testing.
- This solution enabled consistent automated testing across all environments, including production, significantly enhancing test reliability and coverage.

3. Enhanced Test Parallelization and Resilience:

- Designed and implemented a system utilizing multiple, dynamically switchable mailbox services, improving test parallelization and system resilience.
- This innovation reduced test execution time by an additional 30% and increased the stability of automated test runs by 50%.

4. Comprehensive Test Coverage:

- Achieved 95% test automation coverage for critical healthcare management platform features, substantially reducing manual testing efforts and improving overall product quality.

5. Cross-functional Collaboration:

- Spearheaded collaboration between QA, development, and product teams, resulting in a 25% reduction in bug leakage to production and a 40% decrease in critical post-release issues.

6. Process Improvement:

- Implemented best practices in test design and execution, resulting in a 35% increase in defect detection during early stages of the development cycle.
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