M MOHAMMED LUKMANUDHIN

SOFTWARE DEVELOPMENT ENGINEER IN TEST

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SUMMARY

Experienced Automation Tester specializing in e-reader software and healthcare domains. Skilled in automating critical test suites using Selenium with Java, and Playwright with TypeScript, achieving up to 65% reduction in manual testing time and 40% increase in test coverage. Led end-to-end testing for healthcare platforms using Playwright and TypeScript, implementing innovative solutions that reduced test execution time by 60% and achieved 95% automation coverage. Proficient in Java, JavaScript, TypeScript, Python, Selenium, Playwright, Appium, API testing tools, and CI/CD integration in Agile environments.

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, Python.

Test Automation Frameworks: Selenium WebDriver, Appium, Playwright.

Testing Frameworks: TestNG, JUnit, Cucumber.

API Testing: Postman, RestAssured (Java).

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

Version Control: Git.

Project Management: Jira, Azure Devops.

Process & Collaboration: Agile/Scrum Methodologies.

EXPERIENCE

Amazon Chennai, Tamil Nadu

SDET March 2025 – Present

- Developed and implemented comprehensive automation frameworks using Selenium and Java to execute critical smoke and regression test suites for e-reader software, reducing manual testing time by 65% and increasing testing coverage by 40%
- Designed and maintained over 400+ automated test scripts covering critical functionality across multiple product generations, with authority to reject builds based on test failures
- Collaborated with cross-functional teams to integrate smoke and regression automation scripts into CI/CD pipelines, enabling continuous validation of critical functionality and reducing release cycle time by 30%
- Implemented data-driven testing methodologies that improved test reliability and reduced false positives by 45%
- Developed custom Java libraries to enhance Selenium capabilities for product-specific testing scenarios, improving code reusability and maintainability
- Performed root cause analysis on critical test failures, documented build-blocking issues, and worked directly with development teams to resolve high-priority defects before release approval

- Optimized existing automation scripts, reducing execution time by 45% while maintaining robust test coverage
- Participated in daily stand-ups and sprint planning sessions, ensuring alignment with team goals and project timelines

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 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.
