Lavanya Tiruvengala

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Summary:

Dynamic and detail-oriented **Quality Assurance Engineer/Software Test Engineer** with 8 years of experience in automation testing, manual testing, andAPI validation. Adept at developing scalable testing frameworks, ensuring compliance with industry standards, and delivering high-quality software solutions. Skilled in Linux/Ubuntu server environments, CI/CD pipeline integration, and leveraging tools likeSpock Framework, Postman, and JMeter to achieve business goals. Demonstrated ability to manage complex projects andstreamline testing processes to enhance efficiency and accuracy.

Technical Proficiencies:

Operating Systems:	Windows (3.11/95/98/XP/Vista/7/10), MacOS 9/10 (X), Chromebook, Android
Databases	SQL queries, MySQL, Data validation, and migration testing
Automation Frameworks & Tools:	Spock Framework, Groovy, Cypress, JMeter
API Testing & Validation:	Postman, Swagger, REST API, JSON, XML
Programming Languages:	Groovy, Python, Javascript, SQL
Cloud & Containerization:	Docker EE clusters, Kubernetes orchestration, scalability solutions
Methodologies:	Agile, Scrum
Test Management Reporting:	Jira, Xray, Confluence, TestRail
File Scanning & Validation:	ABA routing validation, date validation, logical/physical files checks
Performance Testing:	JMeter (load, stress, and endurance testing)
Languages Known	Telugu, Hindi, English

Professional Experience:

Role: SDET
From: July 2024 to Dec 2024
Client: Earlywarning service, Scottsdale, AZ.
Project: Early Warning Services, LLC, is a fintech company owned by seven of the country's largest banks. For almost three decades, our identity, risk and payment solutions have been empowering financial institutions to make confident decisions, enable payments and mitigate fraud. Our Project is Trusted computing, focusing on the file scanning validation from various banks.

Responsibilities:

- Automated end-to-end regression tests for multiple file types, including MAF, SAF, ZNA, ZFC, ZXF, ZOE etc ensuring.
- Developed and implemented automation test scripts in Groovy using the Spock Framework for various file validation scenarios, enhancing test coverage by 40%adherence to compliance standards.
- Performed API testing using Postman, validating response codes, payloads, and query parameters to ensure robustbackend communication.
- Conducted Dockerized testing environments using Harness for scalable test execution.
- Collaborated with cross-functional teams to align automation efforts with SDLC.
- Ensured seamless integration of test scripts with CI/CD pipelines using Jenkins and Maven.
- Automated file scanning repository workflows for ABA validation, date checks, and logical file compliance using Python.
- Developed a Dockerized testing environment for faster and parallel test executions.
- Collaborated with developers to resolve integration issues and optimize automation scripts for new feature rollouts.
- Conducted root cause analysis on reported bugs and implemented preventive measures to avoid regressions.
- Performed integration with Harness by importing groovy scripts into Harness Pipelines.

- Created and managed a comprehensive regression test suite in Harness for automated validation of file scanningprocesses across multiple environments (QA, Dev, VCR).
- Designed reusable and modular Groovy scripts for integration with Harness pipelines, automating end-to-end testing forfile validation workflows.
- Configured dynamic variables in Harness to parameterize file paths, types, and validation criteria for scalable andenvironment-specific testing.
- Defects are logged using Jira and follow-up with Business and Developers to discuss about the issues.
- Automated pipeline triggers to execute regression suites post-deployment, ensuring seamless validation and quickfeedback loops during releases.
- Designed and documented REST/HTTP, SOAP APIs, including JSON data formats and API versioning strategy.
- Collaborated with cross-functional teams to resolve defects identified during regression testing and optimized pipelinesfor improved efficiency.
- Implemented containerized services using Docker for scalable execution of Groovy-based test scripts across differentenvironments.
- Documented test cases, execution logs, and results in Harness, enabling traceability and simplifying audit requirements.

Environment: Postman, CI/CD, Harness, Soap API, Spock framework, JIRA, Groovy, JavaScript, Python, SQL, Agile Methodologies

Role: QA Engineer
From: August 2022 to April 2024
Client: Visa.inc, Austin, TX.
Project: Visa Inc. is an American multinational payment card services corporation headquartered in San Francisco, California. It facilitates electronic funds transfers throughout the world, most commonly through Visa-branded credit cards, debit cards and prepaid cards.

Responsibilities:

- Proficient knowledge in various types of Software testing as Integrated testing, System testing Black box testing, Stresstesting, Load testing, Volume testing, Backend testing, Regression testing.
- Monitoring of overall quality and timeliness of performance testing deliverables.
- Reopened the defects and tested them again, until they passed. If the problem persisted, I then reported my findings tomy QA Lead as well as the BA and software development department.
- Engaging application architects and Site Reliability engineering support teams in case of any issues observed withunderlying application infrastructure for its timely resolution.
- Tested the integration between Docker containers and external services, databases, or third-party APIs.
- Verified end-to-end functionality, data exchange, and interoperability across containerized components.
- Tested data persistence mechanisms such as Docker volumes or persistent storage solutions to ensure data integrity andavailability.
- Verified data backup, restore, and recovery procedures to mitigate data loss risks.
- Used regular expression for dynamic values in JMeter.
- Participated in writing test cases, execute test cases in various environments using Functional, Integration testing,Backend testing, Regression testing.
- Active interaction with team members, developers in review meetings.
- Experience in requirement gathering, interacting with the client, Business analyst for understanding the scope of therequirements. Executed SQL queries to validate the data at the backend to retrieve data from the database.
- Defects are logged using Jira and follow-up with Business and Developers to discuss about the issues.
- Tested monitoring and logging solutions deployed on Kubernetes for visibility into cluster health and performance.
- Created and executed JMeter scripts for performance testing of portal.
- Documenting the executed performance test results and analysis in Confluence for each software release and reportingthe same along with performance improvement recommendations to business key stakeholders like product owners,developers, solution architects.

- Using Unix scripts tested system configurations, user permissions, file permissions, and system services. Validated systemlogs, error messages, and system monitoring tools.
- Tested REST API calls such as GET, POST, PUT, DELETE etc.
- Expertise in Container technologies – Docker; Kubernetes.
- Tested kafka real data streaming, Rest API web services using Java, TestNG, Maven and Jenkins.
- Identified regression and smoke test cases to automate test cases using Java, selenium web driver, cucumber , junit andmaven.
- Validate the deployment manifests (e.g., YAML files) for correctness and completeness.
- Ensured that pods, services, and other Kubernetes resources are created and configured as expected.
- Used Python requests library to make HTTP requests to the Postman API endpoints, allowing you to manage collections,run tests, and retrieve results.
- Tested error handling mechanisms to ensure that errors, warnings, and exceptions are captured, logged, and handledgracefully to prevent script failure and facilitate troubleshooting using Powershell.
- Tested network connectivity and communication between pods and services within the Kubernetes cluster.
- Used Python to trigger collection runs by making HTTP requests to the Postman Monitor webhook URLs.
- Validate the responsiveness and usability of web applications on mobile devices by leveraging Playwright, capabilities toemulate mobile browsers and devices.
- Tested the deployment of applications and microservices onto the Kubernetes cluster.
- Ensured that automated tests are included in CI pipelines to validate code changes and prevent regressions.

Environment: Docker, Kubernates, kafka, Agile, Postman, API, MySQL, PostgreSQL, TestNG, Cucumber, REST APIs, Git.

Role: Senior Quality engineer
From: August 2021 to July 2022
Client: Capital one
Project: Capital One Financial Corporation is an American bank holding company founded on July 21, 1994, and specializing in credit cards, auto loans, banking, and savings accounts, headquartered in McLean, Virginia with operations primarily in the United States.

Responsibilities:

- Used Groovy scripts to manipulate variables, set up complex requests, and perform custom actions before executing thesampler.
- Used regular expression for dynamic values in JMeter.
- Experienced in using Swagger for REST API specification.
- Used Postman and REST-assured for RESTful web services/REST API testing.
- Performed end to end testing using BDD framework with Cypress.
- Created UI tests using Gherkin, Cucumber and Cypress automation.
- Tested the performance of search functionality, such as searching for transactions or filtering transactions based oncriteria like date, amount, or category.
- Involved in all the phases of Manual Testing process and worked closely with Business stakeholders. Understanding theclient requirements & functionality of the system.
- Evaluated how the application handles concurrent user sessions accessing different parts of the applicationsimultaneously, such as account management, transfers, and bill payments.
- Documenting the RTM (Requirement Traceability Matrix).
- Validated automated scripts for creating and managing Oracle users, roles, and permissions.
- Provisioned PostgreSQL/Oracle instances with defined configurations.
- Performed end-to-end testing of all transit systems software and hardware components, including ticket vendingmachines, ticket office machines, validation systems, web interfaces, and mobile applications.
- Tested web and mobile applications to ensure they meet usability, functionality, and performance requirements.
- Ensured that end-to-end testing covers all aspects of the system, including hardware, software, databases, andinterfaces.

- Created Cucumber feature files comprising of various Test Scenarios and Step definitions for BDD (Behavior drivendevelopment).
- Review of Test Scenarios, Test Cases and RTM.
- Used Cucumber on BDD framework which allows automation of functional validation, along with Protractor andTypescript language to test Angular applications.
- Experience in Applications using AJAX, Object Oriented (OO) JavaScript, JSON and XML.
- Executing Test Cases on different browsers compatible and Android Mobile application for Sanity and ComprehensiveTesting.
- Monitored and measure end-to-end transaction response times, including client-side processing, server-side processing,and database transactions, to pinpoint performance issues using Load Runner.
- Maintaining of folder structure in an excellent systematic manner for every Change requests.
- Defect logging and tracking, Defect validation, Closure and Reporting.
- Active communication with clients for Requirement gathering and Analysis.
- Working closely with developers to design Test Strategy and develop comprehensive Test cases.
- Test case creation, peer reviews and test execution.
- Performed Functional testing, Integration testing, Regression Testing, Web Services testing and UI testing, Databasetesting.
- Integrated Maven with Jenkins for the builds as the Continuous Integration process.
- Ability to write, debug, and maintain shell scripts using Bash, Shell, or other scripting languages.
- Conducted UI/UX validation to enhance user experience across various iOS devices and screen resolutions.
- Tested push notifications, app permissions, and background functionality to ensure seamless integration with iOSfeatures.
- Collaborated with stakeholders to define UAT scenarios aligned with business requirements and user journeys.
- Verified app behavior under different network conditions (Wi-Fi, cellular, offline) and edge cases.
- Developed and executed UAT test plans and test cases to validate end-to-end functionality.
- Configured automated test execution as part of the CI/CD process triggered by code commits or deployments.
- Validated Docker container isolation, least privilege principles, and security best practices to prevent unauthorized accessor attacks.

Environment: JMeter, RestAPI, CI/CD, Ajax, HTML , CSS, UAT, JIRA, SQL, Cypress, Agile

Role: Quality Analyst
From: Oct 2017 to Jan 2019
Client: Tech Mahindra
Project: Tech Mahindra is an Indian multinational information technology services and consulting company.

Responsibilities:

- Managed a highly skilled team of 10 individuals specializing in testing and troubleshooting fiber optical connections,ensuring timely issue resolution and seamless service delivery.
- Ensured thorough end-to-end testing, covering copper to fiber transitions, distribution box configurations, and wirelesssignal strength, optimizing network performance.
- Conducted speed tests, modem configurations, and fault checks to guarantee optimal service quality. Utilized tools likeJMeter for performance testing and LoadRunner for simulating various levels of user traffic to assess telecom network performance.
- Automated UI and Functional & web UI test cases by creating test artifacts like test cases, text suites, collections andexecuted the same across multiple desktop and mobile browsers and test environments in katalon studio and UAT webdriver using TestNG framework.
- Leveraged TestRail to manage test cases, track defects, and ensure strict adherence to quality assurance standards.
- Utilized Wireshark to monitor and measure network interactions during load and stress testing, identifying potentialbottlenecks and optimizing network performance.

- Involved in UI, functional, regression and browser compatibility testing.
- Involved in defect triage meetings with the developers and project management. Experienced in working with businessanalysts to understand the domain from client's business perspective.
- Used UNIX to check server logs using shell scripting.
- From detailed use cases, created test cases for Web applications and Web services.
- Involved in analyzing the business requirement documents (BRD), Functional specification documents to prepare test cases.

Environment: JMeter, TestNG, Wireshark, Ajax, HTML , CSS, UAT, JIRA, SQL, Cypress, Agile

Role: Quality Analyst
From: Oct 2017 to Jan 2019
Client: Amazon
Project: Amazon is an American multinational technology company, engaged in e-commerce, cloud computing, online advertising, digital streaming, and artificial intelligence.

Responsibilities:

- Led a team of 15+ testers to meet project goals ahead of schedule, implementing process improvements that reducedtesting cycle time by 20%.
- Engaged with Product Management, User Experience, and Customer Support teams to understand customer usagepatterns and create comprehensive test plans that reflect real-world scenarios, ensuring thorough coverage and quality.
- Conducted manual testing to ensure compatibility of the Kindle app across various Kindle device models, maintainingquality and functionality standards across devices.
- Led testing efforts to ensure seamless app functionality in offline mode, allowing users to read downloaded bookswithout disruption.
- Directed testing of font rendering and formatting across multiple scenarios, ensuring consistency and readability onvarious Kindle devices.
- Achieved a 0% Performance Improvement Plan (PIP) rate over consecutive months, reflecting dedication to operationalexcellence and continuous process improvement.
- Guided the performance testing team in using JMeter and other tools to evaluate the app's performance and batteryconsumption, optimizing app efficiency.
- Led investigations on gift card and payment systems to detect and report fraudulent activities, contributing to the overallquality assurance and integrity of Amazon's payment processes.

Environment: JMeter, Manual testing, UAT, Device Testing, Jira

Education:
- Master of Science in Engineering completed in 2021 fromOklahoma Christian University.
- B.Tech in Electronics and communication engineering completed in 2011 from JNTUH.