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SUMMARY

Experienced QA Engineer with 8+ years of expertise in Automation and Manual Testing across finance, insurance, and banking sectors. Proficient in all phases of STLC and SDLC, adept in methodologies like Waterfall and Agile. Skilled in Selenium WebDriver/IDE/Grid, Automation Frameworks (TDD, BDD), RDBMS platforms (Oracle, SQL Server, MySQL, Oracle), and testing tools (Jenkins, Cucumber, SOAPUI, JMeter). Strong in Test Plans, Test Cases, Business Functionality Testing, ETL Testing, UAT, Regression, and Performance Testing. Effective in collaborating with HP Quality Center, JIRA, Azure DevOps, and ensuring high-quality software releases.

TECHNICAL SKILLS

Programming Languages: Java, JavaScript, SQL, Python
Automation Testing Tools: Selenium WebDriver/IDE/Grid, Cucumber, JUnit, TestNG, REST Assured, Karate,Kafka, Robot Framework, Appium
API Testing: Postman, ReadyAPI, SOAPUI, REST
ETL & Data Tools: Apache Airflow, Informatica, Pandas, SQL (Oracle, MySQL, SQL Server), BigQuery
Cloud Platforms: AWS services (S3 and DynamoDB),GCP(Dataflow,BigQuery)
Version control(CI/CD) & DevOps: Jenkins, GitHub, Azure DevOps, Maven, Docker, Kubernetes
Test Framework: JUnit, TestNG, TDD, and BDD using Cucumber.
Bug tracking tools: HP Quality Center, JIRA, Bugzilla
Build Tools: Maven, **Jenkins,** Gradle, Ant
Microsoft Tools: MS Word, MS Excel, MS PowerPoint, MS Project, MS Outlook
Operating Systems: Windows, Mac, Linux
Web Technologies: HTML, XML, XPATH,CSS
Browsers Internet: Explorer, Firefox, Chrome & Safari
Test Approaches: Waterfall, Agile/Scrum, Software Development life cycle (SDLC), Software Testing Lifecycle(STLC)

PROFESSIONAL EXPERIENCE

Client: Citi, Mississauga, ON   **Oct 2021 to Nov 2024**
Automation Test Engineer/SDET
Responsibilities:

- Developed and maintained BDD-based automation frameworks using Cucumber (Java) and Pytest (Python) for UI and API validation.
- Automated key business flows using Selenium WebDriver, REST Assured, and Postman, reducing manual QA effort by over 60%.
- Designed data-driven test suites in TestNG and Pytest, leveraging fixture reuse, parameterization, and tagging for scalable execution.
- Created maintainable test suites using Robot Framework for validating critical workflows with enhanced readability and modular design.
- Extended Robot functionality by developing custom Python keywords for handling dynamic content and reusable validations.
- Used Robot Framework for non-functional test scenarios like negative flows and browser compatibility checks, increasing overall test coverage.
- Actively worked on GCP-based pipelines using Google Cloud Dataflow, BigQuery, and Cloud Functions to validate end-to-end data processing jobs.
- Executed cloud-scale validation of ETL workflows involving structured and semi-structured data flowing into BigQuery.

- Managed CI/CD pipelines using Jenkins, Azure DevOps, and GitHub, integrating test automation with every code check-in and deployment.
- Containerized test environments using Docker to ensure consistent, isolated runs across multiple branches and releases.
- Designed and executed batch data processing test pipelines using Apache Airflow with Python DAGs to trigger and monitor ETL jobs.
- Implemented task-level retry logic, failure notifications, and SLA monitoring to improve reliability and observability of Airflow jobs.
- Used Airflow's integration with GCP (e.g., BigQuery Operators, Cloud Functions) to test data ingestion, transformation, and aggregation stages.
- Validated upstream/downstream data consistency and pipeline dependencies, working closely with data engineers and DBAs.
- Performed complex SQL validations on Oracle, MySQL, and SQL Server to ensure correct transformations across staging and production datasets.
- Created source-to-target mapping validations, verified control totals, and implemented null, duplication, and integrity checks.
- Executed comprehensive system, integration, and regression testing for high-impact modules across multiple sprints.
- Identified and reduced flaky tests by 40%, improving stability and maintainability of test pipelines.
- Tracked and resolved defects via JIRA, maintaining documentation and SOPs in Confluence for knowledge sharing.
- Collaborated with product owners, developers, and data teams in Agile Scrum ceremonies to ensure sprint QA completeness.
- Proficient in root cause analysis and debugging across UI, API, and ETL layers using Jenkins logs, API traces, and custom logging mechanisms.
- Designed and executed test scenarios for Kafka-based integrations, validating event flow, message schema (Avro/JSON), and offset tracking using tools like Kafka Tool and Kafka UI.
- Automated mobile app testing using Appium on Android and iOS platforms, validating critical user journeys and ensuring cross-device compatibility via AWS Device Farm.

Environment. GCP (BigQuery, Dataflow, Cloud Functions), Selenium WebDriver, REST Assured, Postman, Pytest, Robot Framework, TestNG, Jenkins, Azure DevOps, GitHub, Docker, Apache Airflow, Oracle, MySQL, SQL Server, Java, Python, Appium, JIRA, Confluence, BrowserStack,AWS Device Farm.

Client: Intact, Toronto, ON   **Oct 2019 to Sep 2021**
Automation Tester
Responsibilities:
- Analyzed business and requirement specifications, designed test labs, and created comprehensive test strategies and software qa plans.
- Automated manual test cases using Selenium WebDriver, maintaining server-side integration tests with Python.
- Conducted end-to-end functional and non-functional testing using BDD frameworks with Selenium, Cucumber, Java, JavaScript, and Python saving 50 % manual time.
- Robust test data management strategies using synthetic data generation, database seeding scripts, and anonymized production data to ensure consistent, reusable, and secure test scenarios across multiple test environments.
- Developed custom Python libraries and keywords to enhance the flexibility of Robot Framework test suites.
- Developed software testing strategies using CI/CD pipelines using Jenkins, Maven, and Kubernetes, managing test execution through Azure DevOps and Git Kraken.
- Created and maintained test scenarios and test cases in Java for Selenium, leveraging REST Assured (BDD framework) for API automation.
- Managed source code versioning with GitHub and utilized JavaScript with Protractor for functional and regression testing.
- Focused on continuous process improvement and implementing API testing using the Karate framework, ensuring robust validation of RESTful services.
- Performed extensive REST API testing with Postman and REST-Assured, validating API functionality, reliability, and performance reducing 35 % effort time.
- Conducted comprehensive ETL workflow testing and test case design using Python and SQL, ensuring data pipeline accuracy and reliability.
- Conducted end-to-end ETL testing of financial data pipelines built on Informatica, ensuring correctness of extraction, transformation, and loading logic.

- Validated source-to-target mappings using complex SQL queries across Oracle and MySQL databases, focusing on null checks, duplicates, and business rule validations.
- Partnered with data engineers and ETL developers to verify transformation logic, field-level mappings, and data lineage for high-volume datasets.
- Executed complex SQL queries and mainframe for data and test validation, ensuring accuracy by comparing source and target datasets.
- Integrated Python scripts with Robot Framework, extending its capabilities for automation and specialized testing and ensuring accountability for test data integrity and accuracy.

Environment: Selenium WebDriver, Jenkins, Cucumber, Docker, JavaScript, SOAPUI, Maven, Fire path, Keras, Eclipse, PYtest, Python, ETL Testing, XPATH, Java, JIRA, HTML, CSS, TDD, SQL, Linux.

Client: Bank of America, Delhi, India   **Aug 2017 to Jul 2019**
Quality Analyst
Responsibilities:
- Reviewed design documents & business requirements, validating modules of online banking.
- End-to-end testing for functional and non-functional aspects, building automation framework in Selenium WebDriver using BDD approach in Cucumber.
- Leveraged Python libraries such as Pandas and NumPy for data manipulation and analysis in automated testing scenarios, enhancing test script functionality and reliability reducing script duplication by 60%.
- Implemented Pytest fixtures and parametrization to streamline test setup and teardown processes, improving test maintainability and scalability to improve efficiency in information technology systems.
- Designed and implemented comprehensive System Testing frameworks and implemented comprehensive test case design for automation testing to ensure high-quality software releases
- Configured and maintained build processes using Maven, Gradle, and Ant to automate project builds and dependency management
- Generated data verification reports and dashboards to communicate findings and insights to stakeholders, facilitating data-driven decision-making and problem resolution.
- Leveraged problem solving expertise for preparation of Requirement Traceability Matrix (RTM) and Test cases for positive and negative test scenarios.
- Conducted end-to-end ETL testing to ensure the accuracy and completeness of data migration processes across different stages of the ETL pipeline and ensuring quality assurance for improving testing efficiency.
- GUI, System, Integration, Smoke, Functional and Regression Testing, along with browser interoperability testing.
- Source code management using GIT.

Environment: Java, Python, Pytest, Selenium, Junit, TestNG, Jenkins, HTML, XML, SQL, MS Excel, Windows, Firefox, Chrome, Internet Explorer, Manual Testing, Maven, Gradle, Ant ETL Testing, Windows.

Client: Bank of America, Delhi, India   **Sep 2015 to Jul 2017**
Manual Test Engineer
Responsibilities:
- Performed various types of testing such as Sanity Testing, Functional testing, Automation Testing, Regression testing, pre-production and Postproduction testing, usability testing, UI testing.
- Actively participated in Agile ceremonies including sprint planning, daily standups, and retrospectives, contributing to continuous improvement in QA practices
- Created the Test Plans and Test Cases from scratch based on the business requirements.
- Analyzed the issues, reported and tracked the bugs in HP QC.
- Applied analytical thinking and designed and implemented automated test scripts using QTP to ensure efficient testing and validation of software applications.
- Conducted user acceptance testing to ensure that developed systems satisfied the needs of business clients as specified in the functional requirements.
- creative problem solver and prepared Test Plan and System Integration Test Scenarios/Cases
- Prepare Daily Status Report and attend defect triage meetings
- Prepare Test Summary Report

Environment: UFT, QTP, HP ALM, Firebug, Windows, VersionOne, Browser stack

Education Details:
Bachelors in Computer Application
Vivekananda Institute of Professional Studies, New Delhi, India   June 2012 to May 2015