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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)

**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, SpecFlow, and Karate with Java, Python, and JavaScript to support scalable, reusable test scripts to ensure quality assurance and efficient testing processes.
- Automated UI and API tests using Selenium WebDriver, REST Assured, and Karate, reducing manual testing efforts by over 60%.
- Worked with Apache Kafka to validate real-time data streaming pipelines, ensuring accurate message delivery between producers and consumers across microservices.
- 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.
- Performed ETL testing across Oracle, SQL Server, and MySQL databases, ensuring data accuracy and consistency through complex SQL validations.
- Designed and executed test pipelines using Apache Airflow, improving batch processing reliability and reducing failure rates.
- Integrated automation scripts into CI/CD pipelines using Jenkins, Maven, Azure DevOps, and GitHub, enabling seamless and faster release cycles.
- Led automation of mobile testing with Appium and AWS Device Farm, ensuring cross-platform compatibility for iOS and Android applications.

- Conducted end-to-end system, integration, and regression testing, ensuring high test coverage and adherence to business requirements.
- Created and maintained test suites using TestNG with parameterized and data-driven testing approaches.
- Reduced flaky tests by 40% through systematic debugging of Selenium-Cucumber failures using logs, API tracing, and Jenkins output.
- Utilized AWS services such as S3 and DynamoDB for data storage and backend testing scenarios.
- Collaborated with ETL developers and data engineers to validate business logic, transformations, and migration of financial data.
- Led project coordination activities to streamline automation testing processes and improve overall project quality and in decision making for improving product quality and reduced defects.
- Managed and tracked defects using JIRA and documented test processes in Confluence to improve traceability in Agile sprints.
- Implemented containerized test environments with Docker and executed cross-browser testing using BrowserStack, improving environment consistency.
- Provided mentorship to junior engineers, enhancing their skills and knowledge in automation testing and software development.

**Environment:** Selenium IDE, Selenium WebDriver, Selenium Grid, Apache Airflow, Protractor, Ready API, Python, Pytest Java, Eclipse, HTML, CSS, JSON, JIRA, Windows, SQL Server, Maven, GitHub, Robot Framework, POSTMAN, ETL Testing, AWS Device Farm, Browser Stack, Appium.

**Client:** Intact, Toronto, ON

**Feb 2021 to Sep 2021**

**Automation Tester**

**Responsibilities:**

- Analyzed business and requirement specifications, designed test labs, and created comprehensive test strategies and test plans.
- Conducted end-to-end functional and non-functional testing using BDD frameworks with Selenium, Cucumber, Java, JavaScript, and Python saving 50 % manual time.
- Exercised leadership in the creation and maintenance of automated testing tools and collaborated with ETL developers, data engineers, and analysts to enhance data validation and verification processes, with the ability to work independently improving data quality.
- Implemented 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 using Python and SQL, ensuring data pipeline accuracy and reliability.
- Experience working with Google Cloud Dataflow for cloud-based ETL workflows and Big Query for data warehousing.
- Utilized Docker to containerize test environments, streamline setups, and maintain consistency across testing stages.
- Proficient in Python for automation testing, including script development, test case execution, and result analysis.
- Executed complex SQL queries for data validation, ensuring accuracy by comparing source and target datasets.
- Integrated Python scripts with Robot Framework, extending its capabilities for automation and specialized testing.
- Developed custom Python libraries and keywords to enhance the flexibility of Robot Framework test suites.
- Automated manual test cases using Selenium WebDriver, maintaining server-side integration tests with Python.
- Developed CI/CD pipelines using Jenkins, Maven, and Kubernetes, managing test execution through Azure DevOps and Git Kraken.
- Applied analytical thinking for creating and maintaining 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.

**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.
- Conducted end-to-end ETL testing to ensure the accuracy and completeness of data migration processes across different stages of the ETL pipeline.
- 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.
- 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.
- Developed and executed comprehensive testing strategies, incorporating troubleshooting techniques to ensure high-quality software releases.
- Preparation of Requirement Traceability Matrix (RTM) and Test cases for positive and negative test scenarios.
- 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.
- 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.
- Conducted user acceptance testing to ensure that developed systems satisfied the needs of business clients as specified in the functional requirements.
- Prepare 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
Postgraduate diploma In Sustainable Business Management Conestoga College,Brantford,Ontario,Canada	September 2019 to April 2020
Postgraduate in Big Data Architechture Conestoga College,Waterloo,Ontario,Canada	May 2020 to December 2020