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Professional Summary

- Highly competent Software Engineer with over 10 years of experience in both Manual and Automation testing of web-based and desktop applications.
- Extensive experience in each phase of the Software Testing Life Cycle, with major responsibilities across all phases.
- Skilled in analyzing Software Requirement Specifications, Use Cases, and developing Test Plans, Test Scripts, and Test Cases.
- Proficient in writing Test Plans and Test Cases according to business requirements and User Stories.
- Expertise in Smoke testing, Positive, Negative, Black Box, Functional, Integration, Regression, and UAT Testing.
- Experienced in writing SQL queries to retrieve, insert, update, and delete data from SQL Server and Oracle databases.
- In-depth experience with DevOps and Agile Scrum development methodologies, and knowledgeable in Waterfall environments. Collaborated closely with Scrum Masters, Product Owners (PO), and Business Analysts (BA), and used tools like Jira, Quality Center, and Rally ALM to follow processes.
- Solid experience in automation using Selenium WebDriver, JUnit, Cucumber, TestNG, and Maven.
- Expertise in Selenium WebDriver Automated testing using Page Object Model (POM) and Serenity BDD.
- Proven ability in developing Automation scripts in object-oriented (OOP) JAVA language using IDE tools like Eclipse, IntelliJ, and Unit Testing Frameworks like JUnit and TestNG.
- Proficient in creating page objects using Page Object Model (POM) structure and developing reusable library functions in JAVA, applicable across multiple projects.
- Experienced in Cross Browser Testing by executing test cases in Firefox, Chrome, Safari, and Internet Explorer.
- Expertise in grouping Test Cases, Test Methods, and Test Suites for Regression, Smoke, and Functional Testing using TestNG and JUnit.
- Experienced in using Continuous Integration and Build management tools such as Jenkins, Maven, and SVN to handle different versions of the source code.
- Well-versed in writing Test Scenarios in Cucumber using Gherkin language from an end-user perspective and implementing those scenarios in step definition classes.
- Good expertise in using Selenium Synchronizations with conditional and unconditional synchronization (Implicit, Explicit) wait statements.
- Proficient in Database Testing, Data Manipulation using SQL queries, and establishing Database connection with JDBC (JAVA Database Connectivity) API.
- Knowledgeable in implementing Log4j as a logging framework.

- Solid understanding of writing test scenarios and automating RESTful web services using REST Assured library and working with Postman, ReadyAPI, or SoapUI Pro and Apache HttpClient.
- Adaptive and capable of learning new tools, techniques, and approaches.
- Motivated self-starter and creative problem-solver.
- Great team player able to work independently when required.

Education and Certifications

- DevOps Foundation
- AWS Certified Developer-Associate
- Certified SoapUI Pro
- Oracle Certified Java Programmer Associate (SE7)
- Certified Scrum Product Owner
- Certified Scrum Developer
- Certified Scrum Master
- DevOps Practitioner

Recent Work History

Sr. QA Automation Engineer/PM

Prudent (USCOURT) - Remote

December 2023 – Present

Responsibilities:

- Serving dual roles as a QA Automation Engineer and Project Manager, supporting and automating court applications across various jurisdictions in the United States, including District Courts, PACER, and Bankruptcy Courts.
- Implemented DevOps practices within an Agile framework to streamline development and testing processes.
- Automated the workflow of the US court system, enhancing efficiency and reducing manual intervention.
 - **UFT & VBScript:** Automated legacy applications using Unified Functional Testing (UFT) with VBScript, developing numerous utility functions.
 - **Selenium & Cucumber (BDD):** Introduced and implemented Selenium with Cucumber BDD framework for newer applications, focusing on behavior-driven development.
 - **Postman:** Utilized Postman to test RESTful web services, ensuring robust and reliable API interactions.
 - **Reporting Framework:** Developed an internal reporting framework using Extent Reports to provide detailed insights into test execution and results.
- Led a team of over 60 testers, overseeing daily operations and ensuring quality standards.

- Managed and approved timesheets for all testers, ensuring accurate and timely recording of work hours.
 - Acted as a liaison between the testing team and government agencies, facilitating clear and effective communication.
- Directed various projects within the court system, ensuring timely delivery and adherence to quality standards.
 - Emphasized documentation, process improvement, and continuous integration.
- **Key Achievements:**
 - Successfully automated critical workflows, significantly reducing processing time.
 - Implemented a modern testing framework (Selenium with Cucumber) that improved test coverage and maintainability.
 - Developed a comprehensive reporting system that provided real-time insights and enhanced decision-making capabilities.

CEO Co-founder of TechCircle

May 2019 – December 2023

Responsibilities:

- Led the company to remarkable success through strategic leadership, technical expertise, and a passion for education.
- Founded and built TechCircle from inception, serving as the visionary leader and chief executive officer.
- Designed and implemented the educational curriculum, focusing on Java, SQL, and JDBC.
- Led a team of dedicated professionals to provide top-notch technical education.
- Managed all aspects of the company, including operations, finance, and marketing.
- Fostered partnerships with leading tech companies to facilitate job placements for students.
- **Achievements:**
 - Established TechCircle from scratch, developing it into a thriving tech education institution.
 - Equipped over 1000 students with the technical skills necessary to secure high-paying IT jobs at leading companies.
 - Managed and maintained techcircleschool.com, fostering an online presence to reach a wider audience.
 - Spearheaded the development of the techcircle.dev website, enhancing our online branding.
 - Oversaw TechCircle's cloud services, optimizing efficiency and cost-effectiveness.
 - Created and managed Jenkins servers on AWS, streamlining the development and deployment process.
 - Hosted and managed applications using AWS, GitHub Actions, and Docker containers.

- Led the deployment of applications on EC2 instances, ensuring scalability and reliability.

Full Stack Engineer

Prudent (USCIS) - Remote

July 2020 – March 2022

Responsibilities:

- Provided production-ready models integrated through RESTful or in-process implication.
- Built client trust in models through statistical documentation and proofs.
- Provided an innovative approach to data science while incrementally providing value.
- Wrangled large data volumes into a shape that enables analysis.
- Worked with peer members of the delivery team to provide business value.
- Successfully designed, developed, and deployed custom websites handling large-volume data streaming using cutting-edge technologies.
- Implemented Kubernetes for container orchestration, ensuring high availability and scalability of applications.
- Utilized Docker to create portable containers, maintaining consistency across different environments and simplifying deployment processes.
- Leveraged various AWS services, including EC2 for compute resources, S3 for storage, Lambda for serverless functions, and Redshift for data warehousing.
- Managed Elastic Kubernetes Service (EKS) in the AWS cloud, optimizing cluster performance and automating control plane operations.
- Developed robust Java applications using the Spring Boot framework, reducing development time and improving overall efficiency.
- Implemented Gradle for streamlined build automation, ensuring smooth project development and deployment.
- Utilized Kibana, the Elasticsearch visualization tool, to create insightful dashboards and reports for data analysis.

Tech Stack: Java, Apache Kafka, Spring Data, Microservices architecture, REST Web services, Gradle, EC2, S3, Lambda, OpenShift, Docker.

Sr. Software Engineer

USPS, Chantilly, VA

June 2019 – July 2020

Responsibilities:

- Used Apache Kafka confluent distribution both as a traditional messaging message and stream platform.
- Managed public and private cloud infrastructures using AWS, including EC2, S3, RDS, and deployed CloudFront to deliver content, reducing load on the servers.

- Designed and developed using Spring Data JPA and Hibernate framework.
- Supported Production issues, following up with users, replicating issues in stage environments, analyzing, and fixing them.
- Extensively worked on Jenkins for configuring and maintaining continuous integration (CI) and End to End automation for all builds and deployments.
- Experienced in branching, tagging, and maintaining version control and source code management tools like GIT and BitBucket on Linux and Windows platforms.
- Maintained Auto-scaling pods in OpenShift for scalability.
- Externalized environment variables using config maps.
- Integrated Jenkins with ALM and published results using Bumblebee ALM integration.
- Automated deployments on AWS using GitHub and Jenkins.
- Set up CI/CD pipelines using Jenkins, Maven, GitHub, and AWS.
- Used GitLab for version control and VersionOne for issues and project tracking.
- Developed a new Serenity JUnit test framework to test Kafka Messages running in Kafka Zookeeper AWS RedShift.
- Built and developed Kafka listeners to consume messages running in Kafka clusters using the Spring Boot, JPA, and Spring Data framework.
- Built Junit tests using Mockito, Hibernate, and H2 Database.
- Parsed JSON and built custom object mappers using the Jackson library.
- Used GitLab for version control and built applications on Jenkins servers running in AWS EC2.
- Deployed applications in different environments using OpenShift and configured config maps using OpenShift's resources.
- Monitored applications using AWS CloudWatch.

Tech Stack: Java, Apache Kafka, Spring JPA, Spring Data, Microservices architecture, REST Web services, Maven, RDS, EC2, S3, Lambda, GitLab, OpenShift, Oracle, Docker.

Lead Test Automation Engineer

USPTO, Alexandria VA
Oct'15 – June 2019

Responsibilities:

- Reviewed and Analyzed the Requirement and Test Plan, developed efficient, highly maintainable and reusable Test Automation framework Strategy to support given projects.
- Created entire project common library with different levels to achieve highly reusable, maintainable framework.
- Created Scenario Based, feature-based automation framework using TestComplete/JScript to increase code coverage.
- Drove entire automation effort, trained the team members, and assigned tasks accordingly to meet sprint automation goals.
- Created different testing suites like Smoke, Must Pass, and Regression to perform automation testing with different focuses.

- Generated daily, weekly, and sprint reports for upper management and archiving purposes.
- Took entire project from lagging behind to Pilot project within USPTO.
- Promoted best practices among the company, mentoring team members.
- As a part of a small USPTO elite team, provided automation as a service among different projects within USPTO.
- Actively contributed ideas in USPTO automation exchange meetings, actively contributed and maintained USPTO global function library to make the best practice available to all.
- Implemented Serenity BDD framework for ETL Database testing using Java and Cucumber.
- Implemented Restful web service testing using Apache HTTP Client.
- Manipulated Tar files using Apache Commons.
- Worked as ETL Tester responsible for the requirements / ETL Analysis, ETL Testing and designing of the flow and the logic for the Data warehouse project.
- Designed and enhanced framework using Coded UI and Selenium WebDriver with Java.
- Executed Backend and Database tests using SQL queries, validating the data for database editing and debugging using Selenium.
- Migrated screens as per requirement using Java and Servlets and checked in the code to SVN on a daily basis.
- Developed the automation framework from scratch for Smoke and Regression testing using Selenium WebDriver, Java, Page Object Model (POM), JUNIT, and Cucumber with Maven build tool in Eclipse IDE.
- Integrated with Jenkins for Continuous Integration.
- Performed Data-Driven testing which reads data from property files, Excel files (Apache POI), and Scenario Outline (Cucumber).
- Involved in Database Testing, Data Manipulation using SQL queries, and establishing a Database connection with JDBC (Java Database Connectivity).
- Validated UI data matching Database by making API calls using Postman and automated the whole process of API Testing using REST Assured library with Java.
- Involved in Continuous Integration and continuous delivery using Canary Pipeline.
- Created user-friendly reports using Cucumber HTML Reports for Selenium Serenity BDD.
- Managed framework dependencies using the Maven build tool.
- Actively participated in Agile Ceremonies like Sprint Grooming, Planning, Demo, and Retro.

Sr Test Automation Engineer

Vanguard, Malvern, PA

Jul'15 – Oct'15

Responsibilities:

- Responsible for gathering requirement for testing from stakeholders to ensure coverage on legacy application testing.

- Developed Test Cases by analyzing Business requirements, Functional specs and Use Case documents.
- Recorded the deviations found during the development cycle and communicated to the client counterparts.
- Maintained Traceability Matrix for requirements to test case and created a data load.
- Created and managed test plan to assist overall test assignment, test cases and test scripts for the testing effort using ALM.
- Executed regression test cases using ALM.
- Prepared test data for the functional test cases.
- Designed test scripts based on business requirements using HP ALM.
- Used HP ALM as defect-tracking tool to track and follow up the defect status.
- Developed external custom functions using VBScript and using Descriptive Programming for UFT.
- Scheduled, interacted and evolved the UFT Scripts and setup test requirements.
- Captured the run time data into the data table by using Output Value feature of UFT.
- Worked on Synchronization timeout and Recovery Scenario Manager in UFT.
- Designed Reusable functions and Actions in UFT.
- Designed Keyword Driven Automation Framework using UFT from scratch.
- Generated Test data for various types of testing for valid data, invalid data testing using in Excel spreadsheet.
- Performed Data-driven testing using UFT.
- Performed Descriptive Programming and maintained Local and Shared Object Repository in UFT.
- Sent Weekly Testing Status reports along with the defect status to the Project Team.