**PROFESSIONAL SUMMARY**

Highly accomplished QA Lead and Automation Engineer with over a decade of expertise in software quality assurance, test automation, and team leadership. Adept at driving end-to-end test automation for complex software systems, ensuring flawless releases through rigorous testing methodologies. Known for enhancing test coverage, implementing innovative solutions, and conducting risk-based testing to minimize defects in production environments, particularly within the AI/ML domain.

* **Test Automation Expertise:** Built and maintained complex automation frameworks using tools like Selenium Web Driver and TestNG, reducing manual test efforts and increasing coverage.
* **BDD (Behavior-Driven Development) Specialist:** Implemented BDD frameworks from scratch, improving communication between developments and testing teams, leading to better alignment on test scenarios and feature acceptance criteria.
* **Quality Assurance Planning:** Develop and execute comprehensive QA strategies encompassing both automated and manual testing for GenAI applications, ensuring flawless functionality of interfaces and backend processes.
* **API Testing and Validation:** Extensive experience with API testing using Postman and REST Assured, validating business logic at various layers, ensuring accurate data exchange between systems.
* **Automated Testing Development:** Design, build, and maintain automated testing frameworks tailored to GenAI applications, enhancing project agility and reliability through CI/CD practices. Conduct thorough manual testing for complex GenAI functionalities requiring nuanced understanding.
* **CI/CD Pipeline Integration:** Integrated automated tests into Jenkins pipelines, providing faster and more reliable feedback loops for continuous integration and delivery processes.
* **Team Leadership and Mentorship:** Led QA teams of up to 10 engineers, providing training, mentorship, and fostering a collaborative work environment that promotes continuous learning and professional growth.
* **Performance Testing:** Proficient in using JMeter and LoadRunner for performance and load testing, ensuring applications meet performance benchmarks under stress conditions.
* **Database Testing and Validation:** Conducted comprehensive SQL-based database testing, validating data integrity across MySQL and MS SQL databases, ensuring consistent data flows through API and backend systems.
* **Cross-Platform Testing:** Conducted cross-browser and cross-platform testing, ensuring compatibility of web applications across various browsers and mobile platforms.
* **Agile and Scrum Practices:** Strong experience working in Agile environments, participating in daily standups, sprint planning, backlog grooming, and working closely with development and product teams to align testing with project goals.
* **Bug Tracking and Management:** Hands-on expertise with JIRA, Zephyr, and Confluence for managing defects, tracking test cases, and reporting progress to stakeholders.
* **Risk-Based Testing:** Developed risk-based testing strategies, focusing on critical paths and functionalities, minimizing risk in production, and ensuring defect-free releases.
* **Regulatory and Compliance Testing:** Ensured compliance with industry standards and regulatory requirements, such as HIPAA in healthcare projects, safeguarding sensitive data, and adhering to legal frameworks.

**TECHNICAL SKILLS:**

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| **Automation Tools** | Selenium WebDriver,TestNG, JUnit, PyTest, Postman, NGRok proxy, Jmeter,Playwright |
| **Programming Languages** | Java, Python, SQL,Javascript |
| **Frameworks** | Behavior-Driven Development (BDD), Page Object Model (POM) |
| **CI/CD Tools** | Jenkins, Maven, Used Docker Containerization for CI/CD  |
| **API Testing** | Postman, REST Assured |
| **Performance Testing** | JMeter, LoadRunner |
| **Database** | MySQL, MS SQL Server, SQL Workbench |
| **Version Control** | Git |
| **Bug Tracking/Management** | JIRA, Zephyr, Confluence |
| **Cloud** | Amazon Workspace, Azure AD |
| **Operating Systems** | Windows, Linux |
| **Testing Environments** | QA, UAT, Staging, Production |

**EDUCATION:**

B.Tech. in Computer Science and Information Technology - Guru Gobind Singh IP University, India **2013**

**PROFESSIONAL EXPERIENCE:**

**F5 Inc., Seattle, WA                                                        Sept 2024 - Present**

**Technical Lead - QA**

***Project: Advanced Application Delivery and Security Platform is a robust solution enabling enterprise-level load balancing, traffic management, and application security. This platform supports global enterprises by optimizing application performance, scalability, and security through innovative technologies like BIG-IP, NGINX, and F5 Distributed Cloud Services. It empowers organizations to ensure seamless application availability across multi-cloud environments while delivering superior end-user experiences.***

**Responsibilities:**

* Lead a team of 12 QA engineers to deliver comprehensive test strategies and automation frameworks tailored to F5's flagship products.
* Develop robust and scalable automationframeworks using Java as the core programming language.
* Use Java-based framework Rest Assured to validate RESTful APIs and backend systems.
* Design and implement automated testing frameworks using Selenium, Cypress, and JavaScript to enhance test efficiency and coverage.
* Develop and execute automated test scripts tailored for applications in AWS environments, using tools like CloudFormation for environment provisioning.
* Test the interoperability of AWS services with other cloud providers, and on-premise environments, particularly in hybrid cloud setups.
* Leverage AI/ML tools to predict areas of potential risk in the application, enabling focused testing on high-risk components and reducing time-to-market.
* Utilize AI models to automate the generation of test cases based on historical test data and application behavior patterns, improving coverage and reducing manual effort.
* Coordinate with cross-functional teams to define test cases, establish quality metrics, and deliver sprint goals within Agile Scrum frameworks.
* Perform system integration testing to validate compatibility of new modules with existing systems.
* Provide training and mentorship to junior engineers, focusing on automation best practices and performance tuning.
* Lead the deployment of sophisticated monitoring tool Splunk for real-time testing and error analysis in staging environments.
* Conduct rigorous regression testing, ensuring backward compatibility and stable feature deployment across multiple release cycles.
* Deliver detailed reports on test progress, defect tracking, and risk analysis to senior stakeholders.

**Environment:** Java, Selenium, TestNG, JUnit, RestAssured, Cypress, Postman, JavaScript, AWS (EC2, S3, Elastic Load Balancing, IAM, CloudFormation, CloudWatch), Jenkins, Docker, Kubernetes, Splunk, JMeter, Agile Scrum, MySQL**.**

**CredAble - Noida, India Mar 2022 - Aug 2024**

**Technical Lead - QA**

***Project****:* ***Dynamic Discounting and Receivable Exchange (DDRX)*** *is fintech software which gives more than 20 domestic and International Bank like ICICI, SC, HDFC, HSBC,KOTAK and many more and several corporates like Amazon, SONY, Flipkart, Appario etc to finance there invoices as early payment. DDRX allows corporate clients to maximize returns on their idle treasury cash by offering suppliers early payment options in exchange for discounts on their receivables. This helps corporates optimize their cash flows and EBITDA margins, while suppliers gain faster access to funds, improving liquidity without depending solely on traditional credit systems.*

**Responsibilities:**

* Developed and executed comprehensive QA strategies for **GenAI** applications, incorporating both automated and manual testing methodologies to ensure flawless functionality of the DDRX application interface and backend processes.
* Led a team of 10 QA engineers in developing and maintaining a comprehensive automation framework.
* Spearheaded the development and execution of automated test scripts using **Selenium WebDriver** and **Java**, **reducing manual testing time by 50%**.
* Automated end-to-end tests using **BDD** (Behavior-Driven Development), **TestNG**, and **POM** to ensure high-quality releases.
* Collaborated with cross-functional teams to gather requirements and define test strategies for new features and products.
* Designed and executed load and stress tests using **Apache JMeter** to assess application performance under varying traffic conditions.
* Created comprehensive **JMeter** test plans, including thread groups, samplers, listeners, and assertions, to simulate realistic user behavior and workflows.
* Conducted **database and API testing**, regularly executing and updating test cases.
* Designed, built, and maintained automated testing frameworks tailored to **GenAI applications,** enhancing project agility and reliability through continuous integration and delivery **(CI/CD)** practices.
* Implemented continuous integration (**CI**) practices using **Jenkins** and **Maven** to automate build and test processes.
* Trained and mentored QA team members, improving their technical skills and teamwork.
* Performed risk-based testing to identify critical functionalities, mitigating high-priority issues early in the release cycle.
* Developed and maintained end-to-end test scripts using **Playwright** with **JavaScript** for cross-browser testing on Chromium, Firefox, and WebKit.
* Automated functional and regression tests for web applications, improving test coverage and reducing manual testing efforts by 40%.
* Implemented data-driven testing in Playwright to automate form submissions, user interactions, and complex workflows across multiple pages.
* Developed automated test scripts in **Cucumber** for validating REST API endpoints, reducing manual efforts in integration testing.
* Collaborated with the development team to ensure Appium test scripts were maintained and updated as part of the overall GitLab pipeline workflow.
* Enhanced existing mobile automation frameworks by integrating Appium with GitLab, streamlining continuous testing in development and staging environments.
* Utilized GitLab for source control management, ensuring that all changes to Appium test scripts were tracked, reviewed, and merged efficiently.
* Maintained test cases and test data using TestRail, and tracked and managed defects using **JIRA** during the **SDLC**.
* Used **Cucumber** to automate acceptance tests, ensuring all scenarios were aligned with the business requirements and met the expected outcomes.
* **AML Analyst/Consultant:** Reviews flagged activities and ensures compliance.
* **QA/Test Engineer:** Tests AML software to ensure accurate detection and reporting.
* **Business Analyst:** Defines requirements and works with stakeholders to align solutions with compliance goals.Defined test metrics, tracked progress, and delivered regular status reports to senior management.
* Designed and conducted user acceptance testing (**UAT**) with business stakeholders to ensure that the final product met business requirements.
* Coordinated post-release validation efforts, ensuring that production systems functioned as expected after every deployment.
* Improved test coverage by creating comprehensive test suites for both **functional** and **non-functional testing,** including **security** and **load testing**.

**Environment**: Java, Selenium, TestNG, JUnit, Postman, Amazon Workspace, MySQL, Jenkins, Maven, Agile Scrum

**CoForge - Noida, India Jan 2021 - Mar 2022**

**Senior Quality Engineer**

***Project****:* ***Simulated Environments Inc (SEI)*** *project which is a leading provider of wealth management technology and outsourcing solutions. They offer services that integrate technology, operations, and asset management, helping wealth managers optimize efficiency, manage risks, and foster growth. SEI focuses on providing a seamless, personalized client experience through platforms like the SEI Wealth Platform.*

**Responsibilities:**

* Designed and implemented a **BDD** automation framework from scratch, facilitating automated regression testing and reporting using **TestNG**.
* Managed end-to-end testing cycles, including smoke testing, integration testing, and system testing in **QA, PILOT,** and **UAT** environments.
* Wrote and executed test cases, collaborating closely with developers and product owners to ensure test accuracy.
* Used Cucumber and Selenium to automate repetitive test scenarios, reducing overall testing time and increasing test coverage.
* Wrote detailed test cases and automated them using Appium, and integrated the test results into GitLab for automated reporting and analytics.
* Set up GitLab runners to execute Appium test cases on various mobile devices and emulators, ensuring compatibility across multiple platforms.
* Implemented continuous testing strategies by integrating automation frameworks with **GitHub** repositories, improving overall test coverage.
* Collaborated closely with the development team to troubleshoot and resolve defects, ensuring timely fixes and continuous integration throughout the SDLC.
* Maintained bugs and test cases via **JIRA**, **Zephyr**, and **Confluence**.
* Conducted performance testing using **Postman** and **JMeter**.
* Developed a mini project using **PyTest** and **Python** to automate critical workflows.
* Integrated automated testing into the **CI** pipeline using **Jenkins**, allowing faster feedback loops and quicker issue identification.
* Performed **API testing** using **Postman** and **REST Assured** to ensure data integrity and endpoint reliability.
* Conducted **root cause analysis** for critical bugs and worked closely with developers to ensure quick resolution.
* Analyzed logs and metrics to identify potential bottlenecks and performance issues in the application.

**Environment**: Python, PyTest, TestNG, Postman, JMeter, JIRA, Confluence, Zephyr, Jenkins, Agile Scrum

**Intelegencia Analytics -- Noida, India Mar 2016 - Dec 2020**

**QA/Senior Quality Analyst**

***Project #1****:* ***Remedy Partners Episode Connect & Care Coordination*** *where Episode Connect is the only enterprise software that functions as a complete operating system for managing value-based payment programs. Delivered via web and mobile devices, it is the connective tissue between administrators, nurses, physicians, case managers, patients and families. Remedy enables the dramatic improvement of the quality and efficiency of healthcare delivery by developing and managing episodic payment programs in partnership with leading healthcare organizations.*

***Project #2:******Total Benefit Solutions TBS*** *is an insurance firm which provides easy insurance from small to mid sized businesses, and organizations with employees working in far off countries.*

***Project #3: LocalVox*** *is a simple, effective & affordable online marketing platform that helps local businesses be found by new customers. From deals, mobile, social media, maps, syndication, search, reviews, article writing, email and websites, LocalVox drives more leads to businesses of all types and sizes (single location shops to multi-location franchises) — all with the touch of one button.*

**Responsibilities:**

* Maintained and expanded a full-fledged **BDD automation framework**, automating regression and functional testing.
* Performed end to end testing for a US healthcare project with **HIPAA** compliance certification.
* Built and maintained a robust **API test automation suite** using **Postman** and **REST Assured** for both RESTful and SOAP services.
* Conducted **API testing** at multiple layers of projects, from the business logic layer to the UI layer.
* Created and executed **SQL queries** to validate data integrity and test database schemas across various applications.
* Automated repetitive test cases using **Selenium WebDriver** and integrated test execution with **Jenkins** for continuous delivery.
* Defined and implemented structured **test plans** for performance testing using **JMeter** to simulate high-load scenarios.
* Managed and resolved issues in multiple environments (QA, Staging, Production), ensuring each build met required standards.
* Participated in **peer code reviews** and provided feedback to ensure adherence to coding standards and test coverage goals.
* Provided production support by monitoring test scripts, analyzing failure reports, and escalating issues when necessary.
* Ensured compliance with **industry regulations** and best practices, such as **HIPAA** for healthcare-related projects.

**Environment**: Selenium WebDriver, TestNG, JUnit, MySQL, MS SQL, API Testing, Cross Browser Testing, Postman, REST Assured, JMeter, Jenkins, Agile Scrum.

**Awarebase Corp - Noida, India Jan 2014 - Mar 2016**

**Quality Analyst**

***Project****:* ***TINA Web*** *is a New Version of TINA Windows as a Web based Application for global customers. It’s a document management &; Workflow management system, which provides a fully dynamic feature.*

**Responsibilities:**

* Developed and executed detailed **test scripts** for validating functionalities across web and mobile platforms.
* Filed and verified bugs in every release cycle, collaborating closely with developers to ensure issues were resolved.
* Handled live incidents and post-UAT defects, coordinating with the production team to provide timely solutions.
* Conducted **exploratory testing** to uncover unexpected behaviors and edge cases in the software.
* Managed and resolved issues in the **post-production** environment, providing support for live systems.
* Wrote **Test Closure Memo** after successfully delivering software solutions to clients.
* Contributed to the development of **standard operating procedures (SOPs)** for the QA team, improving efficiency in test execution.

**Environment**: MS SQL Server, Selenium WebDriver, JIRA, Production Support, Exploratory Testing, Agile Scrum.