Daipayan Sarkar
Sr. Software Quality Engineer

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Professional Summary

- Over 10+ Years of experience as **Senior Software Quality Engineer** in Software testing with extensive knowledge in **Automation Framework**, **Windows-based Desktop**, **Web-based applications testing, Database testing**.
- Experience in generation of Test cases for web applications using **Selenium with TestNG**, using **TestComplete** for desktop & web based White box Automated testing.
- Proficient in creating automation Framework from scratch and configuring various other peripheral tools to perform tests such as, using page object model for different requirements such as for web applications using **Selenium web driver**, and for **Restful web services** using **Rest Assured libraries.**
- Experienced in writing Test Plans, Test Cases, Test Procedures and Test Scripts from Requirements and Use-Cases to conduct: **Unit, Integration, Black Box, Smoke, Integration, Regression Testing.**
- Integrated continuous integration (CI) in **Jenkins** with multiple Automation frameworks to set jobs to run regression, smoke test suites.
- Expertise in creating and modifying existing or new **BDD (Python, Cucumber with Selenium) and TDD (Java, Selenium with POM)** driven test framework.

Skills

Domain Knowledge	Healthcare, Insurance, Banking & Financial Services
Test Management Tools	ALM, JIRA, HPQC 10.0, Bugzilla, IBM Doors, code Collaborator.
Automation Tools	TestComplete, Selenium WebDriver, Selenium Grid, Selenium RC, Appium Web Driver, Junit, BDD, POM, XML, Cucumber, REST Assured,
Languages	Python, Java
Framework	BDD (Behavior Driven Development), Hybrid TestNG, Maven, Page Object Model, pytest, PyUnit.
Continuous Integration Tool	Jenkins
Database & Cloud	MS SQL Server 2005/2008
Version Control System	Git, SVN
Web Technologies	HTML, CSS, JavaScript

Location	Work Auth	Education	Certifications
• Bay Area, California, USA	• **H1B**	• ***Bachelor of Technology in Electrical and Electronics Engineering -*** *SRM University-* Chennai, *India.*	▪ ISTQB External Certified. ▪ Brainbench certified SQL (ANSI) Fundamentals (Master Level). ▪ HIPAA certified.

Experience

Sr Software Quality Engineer, San Francisco, CA   *Nov 2018 - Current*
Employer: *CitiusTech Healthcare*
Projects:

    i. Sentara Healthcare, Nov 2021 – Present
    ii. General Electric- India, Carescape Central Station – Dec 2018 – Oct 2021

Roles & Responsibilities:

- As a Core Automation Engineer conducted proof of concepts (POC) and influenced the direction of the automation effort, and its schedule and prioritization.
- Designed and build a robust automation framework for a desktop-based software medical device product.
- Develop functional automated tests. Build fast, robust, and maintainable automation using Python-based Tools such as TestComplete for the Desktop application and Java-based tools such as Selenium Web Driver for associated web-based software products..
- Perform automated testing and document test results. Document, implement and maintain test scripts. Diagnose, track and manage quality issues to resolution.
- Integrated Automation scripts in Continuous Integration tools (Jenkins) for nightly batch run of the Script.
- Involved in Restful APIs testing of different downstream applications with different XML requests and validated XML response using libraries like Rest Assured.

Achievements:

- Designed and implemented a Hybrid based automation framework with healthcare regulations on tech stack as Python, Selenium, Test Complete, MySQL for a desktop & web-based application.
- Automated 873 test cases out of 1100 which are identify for automation. This reduced overall manual efforts by 79%.

- Successfully configured CI using Jenkins with the automation framework, in a highly restricted test environment. Running the scripts on a nightly basis helped in increasing build and script stability immensely.
- Setup HALT (Highly Accelerated Life Test) environment involving multiple devices to identify memory leakage issues and performance issues which could be identified or exposed after prolonged usage.

Environment: TestComplete, Eclipse IDE, Selenium Web Driver, RestAssured , Jenkins, Jira, GIT, TestNG, Maven, BDD(Cucumber).

Sr. Software Engineer, Bengaluru, India *Jun 2016 – Sep 2018*
Employer: *Estuate Inc*
Projects:

    i.   Roche- Avenio Millisect -June 2016 – Sep 2018

Roles & Responsibilities:

- Advanced testing strategy, build unique test scripts and presenting the plan to business.
- Conducted proof of concept (POC) to accommodate automation solutions for testing software side of Medical Devices such Avenio Millisect, Apex Pro, Central Station Monitoring solution.
- Design and modified test automation built on Python, Selenium, TestComplete while supporting CI/CD pipeline for software delivery.
- Analysis of documentation for regulated environments such as FDA, HIPAA compliances each release cycle.
- Maintain and enhance the Test Complete based automation framework for the desktop-based medical application to reduce code and for better maintenance.

Achievements:

- Identified and automated 90% of End 2 End test cases by converting functional regression suite within the project lifecycle.
- Successfully automated E2E, Regression test suites in a span of 2 years.
- Lead the test team efforts successfully in Release 1 with no High and medium defect leakage.
- Modified and integrated the existing framework to accommodate complex automation flows to interact with JS, angular JS components.

Environment: HP ALM, TestComplete, Test Execute, JIRA, MS SQL 2005/2008

Automation Engineer (Product Specialists), Kolkata, India *Dec 2009 – Jul 2015*
Employer: *Cognizant Technology Solutions*
Projects:

    ii.   MetLife Life Insurance, Sept 2014 – July 2015.
    iii.   Massachusetts Mutual Life Insurance, EB USIG Testing, Aug 2012 – Aug 2014.
    iv.   Manulife Canada, Jan 2010- July 2012.

Roles & Responsibilities:

- Extensively involved in writing the Test cases and Test scripts to perform Manual in HP ALM and Automation testing using selenium and rest-Assured.
- Perform peer reviews for the test automation code and provide review comments for the offshore/onshore team.
- Develop and test the feature file in cucumber.
- Identified and tracked defects, generated bug reports, and submitted test reports.
- Wrote SQL Query to extract data from various database tables for testing purposes.
- Provide demos to stake holders on every sprint and detailed walk through of developed product.
- Identify risks, prioritize the risks and plan mitigation

Achievements:

- Successfully Automated Regression suite test cases for all the projects.
- Implemented API Rest Assured into existing Automation framework to test all the downstream applications for EB USIG.
- Involved in all war room sessions for prerelease and post release support for MetLife Life Insurance project.
- Automated 70% of E2E test cases, 80% of Regression test cases in all the project cumulative.

Environment: HP QC, Selenium, Junit, API, Rest Assured, HTML, JIRA, Bugzilla, MS SQL 2005/2008

Certifications

- ISTQB External Certified.
- JAVA Certification.
- LOMA 281 Certified.
- ACS101 LOMA Certified