Daipayan Sarkar

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Summary — Experienced professional with over 13 years in software testing and automation, specializing in designing and implementing robust automation frameworks for web and desktop applications. Proficient in Selenium, Python, Java, and continuous integration tools like Jenkins. Proven track record of improving test coverage, automating complex test cases, and enhancing testing efficiency.

Skills

Automation Tools	Selenium WebDriver, TestComplete, Cypress, Katalon Studio, Appium, REST Assured
Languages	Python, Java, JavaScript
Frameworks	BDD (Cucumber), TDD, TestNG, Pytest,Mocha , Page Object Model
CI/CD Tools	Jenkins , Docker, Git , SVN
Databases	Oracle, MySQL, Postgres, MongoDB

Experience

Guardant Health — May 2022 – Present
Senior Software Engineer in Test

– Automated 150+ test cases using Selenium Java for GUI, Python for LabVantage SDI and Cypress for downstream portal, enhancing testing efficiency.
– Improved test coverage by 20% through the design and execution of tests on LabVantage system functions.
– Proposed and implemented a framework revamp, scheduled daily run boosting efficiency by 15%.
– Created load tests for 5 services using ReadyAPI, ensuring system robustness.
– Transitioned load testing tools from ReadyAPI to JMeter, saving 20% in costs.
– Developed billing utilities, reducing workflow time by 80% through native Labvantage automation.
– Developed and deployed a Python-based desktop app to decentralize test data creation across teams within the organization.
– Assisted in test documentation to support software development for medical devices in compliance with FDA, CE mark, IEC 62304, PMDA, and ISO 13485 standards, with ongoing automation of documentation.

CitiusTech Healthcare — Nov 2018 – May 2022
Technical Specialist QA - II

Projects

• Sentara Healthcare
• General Electric, Carescape Central Station & ApexPro

– Led a team of 7 Automation Engineers, guiding automation strategy and prioritization.
– Created a robust automation framework for a desktop-based medical device software.
– Developed functional automated tests using Python and Java for desktop and web-based applications
– Integrated automation scripts with Jenkins for continuous integration and nightly batch runs.
– Automated 873 of 1100 identified test cases, reducing manual efforts by 79%.
– Established a Highly Accelerated Life Test (HALT) environment, identifying memory leakage and performance issues.

Estuate Inc — Jun 2016 – Sep 2018
Sr. Software Engineer

Projects

• Roche- Avenio Millisect

– Developed advanced testing strategies and unique test scripts for medical device software
– Conducted proofs of concept (POCs) for automation solutions in regulated environments.
– Automated 90% of End-to-End (E2E) test cases, reducing manual testing efforts.
– Led the test team through Release 1 with no high or medium defect leakage.

Cognizant Technology Solutions — Dec 2009 – Jul 2015
Product Specialist-Testing

– Automated regression suite test cases for multiple projects, achieving 70-80% automation.
– Implemented REST Assured API testing into existing frameworks, improving downstream application testing.
– Participated in war room sessions for MetLife Life Insurance project, ensuring successful pre- and post-release support.

Education

SRM University, *Chennai,India*
Bachelor of Technology in Electrical and Electronics Engineering

Certifications

- Java Certification
- Brainbench SQL (ANSI) Fundamentals (Master Level)
- HIPAA Certified
- LOMA 291 Certified
- ACS101 LOMA Certified