**Sai Chaithanya Musthyala**

Toronto, Canada | +1 613 970 8433 | saichaithanyamusthyala@gmail.com | https://www.linkedin.com/in/sai1chaitanya/

Highly skilled QA Automation Engineer with a Post-Graduate Diploma in Cybersecurity and 5+ years of experience in test automation engineering, SDET and QA engineering across various industries. Conversant with a wide range of testing tools and approaches, frameworks, languages and other technologies including Waterfall, Agile/Scrum, SDLC, STLC, Selenium WebDriver, JMeter, HP LoadRunner, Java, Python, JavaScript, Postman, QTP, Cucumber, Jasmine, Gherkin, TestNG, JUnit, log4j, ATDD, TDD and BDD. Highly Experienced in crafting modular and reusable test automation frameworks to facilitate continuous testing in Agile environments. Experienced in collaborating with cross-functional teams, ensuring comprehensive coverage of functional performance characteristics. Proven capabilities in designing, deploying, and monitoring end-to-end testing solutions. Skilled in developing and maintaining automation tools, scripts, and frameworks.

**AREAS OF EXPERTISE**

* Manual and Automation Testing
* Software Development Life Cycle
* Quality Assurance and Control
* CI/CD Pipeline Enhancements
* Performance Tuning and Monitoring
* Agile Project Management
* Robotics Process Automation
* Application Functionality and Flow
* Test Automation and Coverage
* Customer Service and Retention
* Software Testing Life Cycle (STLC)
* Requirements Traceability Matrix
* Stakeholder Liaison & Engagement
* End-To-End Web App Automation
* Data Validation and Reporting
* Web Automation and Debugging
* Code Quality and Testing
* Requirements Gathering and Review
* User Interface and User Experience
* Technical Documentation
* Systems Integration and Testing

**PROFESSIONAL EXPERIENCE**

**iA Financial Group Toronto, Ontario**

Senior QA Automation Engineer April 2023 - Present

* Manage all Scrum ceremonies including daily stand-up meeting, Sprint planning meeting, Backlog Refinement meeting, Retrospective meeting, Sprint and demo sessions by applying Agile methodologies thereby ensuring the timely delivery of projects with effective communication to stake holders
* Extract extensive data from external Excel files using Apache POI, loading them into the variables in the scripted codes.
* Conduct GUI testing, integration testing, navigation testing and regression testing on web-based and client-server applications.
* Carry out more than 10 necessary testing at various phases of the software development and software testing life cycles.
* Execute test cases and test scripts, delivering quality software and applying hybrid, keyword or data-driven frameworks.
* Utilize OCR and image recognition technologies while developing robust test cases, writing efficient test scripts, performing end-to-end testing, improving the accuracy in tests involving data extraction from both images and documents by 15%.
* Develop an end-to-end automation framework for mobile application testing on Android and iOS mobile applications using Appium, TestNG, Maven and Java while writing and implementing test automation scripts for mobile testing using Appium.
* Formulate solutions to automate and streamline manual processes, saving up to 10 hours per week of manual task time.
* Implement various API test suites using REST Assured in Java to ensure reliability and functionality of RESTful endpoints.
* Produce test automation frameworks from scratch using Cucumber with Page Object Model (POM) using Java language.
* Validate request and response payloads, status codes and authentication mechanisms thereby improving software quality.
* Execute data-driven testing strategies in REST Assured using parameterization to execute API tests with diverse datasets.
* Integrate REST Assured tests into CI/CD pipelines using Jenkins, ensuring automated API testing as a crucial component of the continuous integration process and ultimately reducing the time to identify and rectify issues in development life cycles to ensure continuous improvement.
* Rely on Version control systems Git source control repository tools where Java and Selenium test source code and resources are fully maintained.
* Test RESTful web services using REST Assured and Postman while generating test logs using Log4 j for various log levels.
* Develop user stories using Java in Behavioural-Driven Development (BDD) and Test Driven Development(TDD) framework for user acceptance testing (UAT).
* Perform cross browser testing and parallel testing to test that the applications are working as desired in different browsers.
* Conducted thorough code reviews, ensuring adherence to coding standards, identifying vulnerabilities, and enhancing overall code quality.
* Interact with the development team while identifying and investigating software bugs and resolving bug issues using Jira.
* Deploy, monitor and manage UiPath Robot automation activities, implementing robotic process automation (RPA) solutions across the platform, improving the success rate of automated processes by 90% and reducing average error rates by 45%.

**Byju’s Bangalore, India**

QA Automation Engineer November 2020 - September 2021

* Analyzed system requirements before creating detailed test plans and cases as well as providing relevant documentations.
* Used Excel automation, POP3 mail services and Outlook for repetitive data entry for comparing columns and saving mails.
* Executed automation tests for API tests such as both back-end and UI-based components, increasing test coverage by 30%.
* Created automation test cases and automated scripts for AngularJS app using Selenium WebDriver, Java, TestNG or Maven.
* Implemented Hybrid Test Automation Framework, Page Object Model using Selenium WebDriver, TestNG, Maven and Java.
* Formulated an automation framework from scratch and automated web services using Java, TestNG, Maven and POM.
* Automated end-to-end test scenarios with Selenium WebDriver & PyTest while reducing regression testing efforts by 35%.
* Participated in concept and requirements definition meetings, offering feedback for functional and technical documents.
* Architected and integrated hardware and software with LoadRunner, Performance Center and JMeter-based infrastructure.
* Developed BDD Automation Framework and various Feature Files which included Features, Scenarios and Step Definitions.
* Utilized UiPath automation elements including Mouse, Keyboard and Attribute thereby automating the sequence activities.
* Effectively communicated QA automation details for non-tech stakeholders, ensuring clear understanding of issues /problems and offering straightforward remediation recommendations on complex systems.
* Formed plans for dynamic data handling and efficient environment configuration, enhancing reliability of end-to-end tests.

**Capgemini Hyderabad, India**

QA Engineer February 2018 - November 2020

* Analyzed requirements documents to get better understanding of the system from both technical and business perspectives.
* Produced Test Plans, Test Scripts and Test Cases based on comprehensive functional specifications and user requirements.
* Developed and maintained automated regression test cases in Selenium WebDriver by utilising Java and JUnit Framework.
* Conducted and participated in Functionality Testing, System Testing, Regression Testing as well as User Acceptance Testing.
* Used Selenium WebDriver, JUnit functions and JDBC Connections to read data from scripts using property and XML files.
* Applied image activities with wait conditions, ensuring proper web/app loading and performing certain actions in a loop.
* Devised UAT regression automation scripts and automated functional testing framework using Selenium and WebDriver.
* Collaborated with over 20 Managers and Team Leads for testing efforts while sending status reports as needed daily and weekly.
* Produced Test Codes and Test Scripts in Java using Eclipse IDE and JUnit framework while using Data Scraping method in UiPath for extracting structured data from various browser applications or documents into CSV files or Excel spreadsheets.
* Utilized SOAP UI tool to test SOA-based architecture application to test SOAP services and REST API while generating test reports, performing e web services tests as well as testing complex policy rating algorithms, batch jobs and business rules.
* Wrote data-driven scripts for adding customers, checking online accounts, validating user interfaces and forming reports.
* Used Screen Scraping method to extract text from running window apps by output methods like Native, Full text and OCR.
* Leveraged the Credential Manager and Orchestrator Assets for maintaining, securing and retrieving the user credentials.

**Citi Bank Hyderabad, India**

QA Analyst June 2017 - February 2018

* Prepared test plans, test scenarios and test cases from business use cases while creating test data and test scripts for testing.
* Maintained Selenium, Cucumber and Java automation codes and resources in source controls like SVN over time for improvements and new features while using test scripts and running automated test cases in parallel on at least 5 environments.
* Developed and maintained QTP/UFT test scripts to support regression testing whenever a change request was completed.
* Created test plan, design document, use cases and flow charts according to business rules, application rules or workflows.
* Worked end-to-end in Software Testing Life Cycle (STLC) for projects including planning of testing resource and schedule.
* Devised Test Plans and Test Specifications based on Functional Requirement Specifications and System Design Specifications.
* Managed test scripts, and test case design using Jira while gathering and monitoring functional and technical requirements.
* Wrote and executed complex SQL queries (join, sub-queries) while performing object identification and data-driven testing.
* Worked on automation framework, creating function libraries as well as converting manual integration into automated tests.
* Liaised with a development team of over 10 employees to have quick turn-around bug fixes in the tight schedule of releases.
* Used Quality Center to manage test scripts and case design, tracking requirements and defect as per the status of projects.
* Housed all test documentation and reported issues/defects using Quality Center while participating in all QA review meetings.

**TECHNICAL EXPERIENCE**

* **Frameworks:** Page Object Model, Keyword-Driven Framework, Robot Framework, Data-Driven Framework, Apache POI, ATDD, BDD,TDD Hybrid Framework, Cucumber, Jasmine, Gherkin, TestNG, JUnit, log4j, Slash, Cypress and XCUI.
* **Mark-Up Languages:** HTML, XML, JSON, XPath, Xcode, XSD, XSL, XSLT, JSP, AJAX and CSS.
* **Operating Systems:** Windows Variants, Unix, Linux, MacOS, iOS and Android.
* **Database Management Systems:** MySQL, Squirrel SQL, Postgres and Oracle.
* **Defect Tracking Tools:** HP ALM, Jira, Confluence and Microsoft Team Foundation Server (TFS).
* **Office Tools:** Microsoft Office Suite (Project, Outlook, Excel, PowerPoint, Access, Word) and Google Workspace.
* **Testing Types/Strategies:** Manual Testing, UI Testing, Integration Testing, Regression Testing, Black Box Testing, White Box Testing, API Testing, Performance Testing, Smoke Testing, Load Testing, Stress Testing, Sanity Testing, System Testing, Functional Testing, Unit Testing, PyTest, GUI Testing, Database Testing, User Acceptance Testing, Cross Browser Testing and Mobile Testing.
* **Programming and Scripting Languages:** Java, C#, C++, SQL, Python, .Net, JavaScript, VB Script and Groovy Script.
* **Build and Integration Tools:** Maven, Ant, Bamboo, Jenkins and Hudson.
* **Test Approaches:** Waterfall, Agile/Scrum, Software Development Life Cycle, Software Testing Life Cycle, Bug Life Cycle.
* **Testing/Debugging Tools:** Selenium WebDriver, JMeter, HP LoadRunner, Postman, QTP, SoapUI, Ui Path, Protractor, Appium.
* **Other Utilities and Technologies:** WebStorm, Notepad++, Microsoft Visual Studio, IntelliJ, GIT, Git Hub, SVN, Bitbucket, Sauce Labs, RESTful APIs, Eclipse IDE, Cloud (AWS), Fire Path, Firebug, UiPath Orchestrator and REST Assured Library.

**EDUCATION**

**Loyalist College Belleville, Canada**

Post-Graduate Diploma in Cyber Security September 2021 – April 2023