**Arun Thimmappa**

**QA Automation Engineer / SDET**

**609-456-0220 EXT 102**

**PROFESSIONAL SUMMARY:**

* Having 13+ years of diverse experience in the IT industry with a focus on Functional UI and API Software Quality Assurance and Control activities including Performance testing.
* Drive the entire Software Test Life Cycle for the product and services to create and implement a strategy driving the quality and building & leading a team of Quality Assurance Professionals.
* Experience in SDLC (Software Development Life Cycle) and STLC (Software Testing Life Cycle).
* Experienced in Functionality UI and APISpringboot, RestAssured,Restsharp, Usability, Accessibility and reliability.
* Experience in performance testing using JMeter, Gatling, LoadRunner, and monitoring tools used Splunk.
* Good experience in creating automation frameworks from scratch and extensive knowledge of developing different types of frameworks like Modular, behaviour-driven, Data-driven, keyword-driven, Page Object, and Hybrid frameworks by using Selenium Driver using C#, JAVA, JavaScripts, Cucumber/Gherkin, Jasmin, Katalon, and Cypress, Playwright, TestNG and TestComlete automationframework and tools with NodeJS and Angular applications.
* Designing and implementing automation frameworks for Native, Web and Hybrid applications using Appium.
* Experienced in efficient locator's strategy like ID, Name, XPath (Relative\Absolute) and CSS to run WebDriver script in stable conditions with Headed and Head less and debug modes.
* Experience in developing C#, Java and JS libraries to Create and Read test data from XML, EXCEL, JSON and Text files, read, verify and send email using Exchange web services, read and verify PDF, word and Excel file data.
* Experience in automating web services using C#, Java and JS, REST and SoapUI protocols with Swager standard.
* Extensively proficient in Functional testing, Performance testing, Integration testing, GUI testing, Regression testing, Automation testing, Load testing, UAT testing, and Security testing.
* Expertise in preparing Test Plans, Test strategy, Test Cases, Test Case\scripts reviews, Test Case Execution, Automation Test scripts, Defect management, Defect Reports, and Test reports with consistency, quality, and reusability of test automation artifacts.
* Good programming skills in Java, Oracle, SQL, and PL/SQL and experience in SQL Server and Oracle Databases.
* Expertise in documenting defects with a high level of details, accuracy and informative recreation steps using Azure DevOps, TFS, Quality Center, JIRA, IBM ClearQuest, Bugzilla, etc.
* Experience with Assertions like Schema, API data dictionary Compliance with respect to Requests and Responses.
* Dynamic in working with all teams involving Developers, Business Analysts, Product teams, DevOps. DevSecOps, NOC and Client Support teams for deliveries on time and budget with the highest quality.f
* Strong skills in Implementing Quality Assurance Standards, and Testing Methodologies for Large Enterprise GUI, and WEB applications using Use Case Documents, Functional Specifications, and Business Requirements.
* Unique ability to understand long-term project development issues at all levels, from interpersonal relationships to the details of coding, scripting and ability to learn and adapt quickly to emerging new technologies.
* Effective communicator, excellent analytical skills. Ability to relate to people at any level of business&management.
* Well versed with Testing Concepts, Methodologies, and expertise in Selenium Java, JavaScript and Coded UI C# Automation test using Unified, Cucumber, Jasmin, Katlon and Protractor Frameworks. Hands-on OOPS concepts,
* Experience in Robotic Automation using BOTs Framework.
* Implemented / Maintaining Test Automation Framework using Visual Studio Professional 2022 - CodedUI (.Net Framework - 4.8, C#) Multi-Layered Approach with Data and Keyword Driven Framework.
* Automated Build Deployment Test [BDT] - Test Framework using Azure DevOps VNext build & Release Pipelines (also [TFS] Microsoft Test Hub and Microsoft Test Manager 2019 [MTM]), including Test Agent Configuration.
* Performed Security Testing (Cross-Site Scripting (XSS)), API, UI Validation, Tempering Web Requests, HTML & SQL Injection, and Vulnerability Scanning Test (Veracode)).
* Hands-on Experience in Localization Testing, Internationalization Testing, and Cross Browser Testing.
* Contributed Build and execute unittesting in API, FT, ST, component, acceptance, load, security, scalability, usability, and platform tests Automation Testing, System Integration Testing & E2E Testing across the Program.
* Proficiency in Targeted Risk Based Testing and Managing Requirement Traceability Matrix.
* MAC and IOS testing to Check of power-on, booting, display, keyboard, mouse/trackpad, and connectivity ports Device drivers functionalities. Comprehensive testing to ensure that the Mac meets Apple's quality standards. This includes both hardware and software components. Verifying the Mac's operating system is installed correctly and functions properly with ports and connections to ensure proper functionality. Verifying the functionality of Wi-Fi and Bluetooth connections.
* Checking the battery performance, charging, and overall health. Verifying the quality of the display, including resolution, color accuracy, and brightness. Confirming that all internal hardware components are integrated correctly and work together seamlessly.
* Experience in ADA testing and compliance and ANDI automation Framework and selenium automation.
* Understanding analysis techniques such as Gap analysis, RCA, Risk Analysis, Cost/Benefit Analysis, Budget Management, Time motion, and study – Associated with the Business Optimization Team.
* Experience in Agile, DevOps, DevSecOps, and V-Module with CSV Methodologies. Experience in working on requirement gathering – FSD & TSD and Project Management – Initiating, Planning, Execution, Monitoring, andClosing

**DOMAIN / AREA WORKED ON**

Insurance, Banking, HRMS, Supply Chain, Global Commerce, e-Commerce, Digital Signage, Printing and Phone Apps (Android and IOS)

**Insurance and Banking -** Worked on Micro Services Architecture like PCI compliance including stripe services including retail banking services to processing transactions (Payment and refund) in terms of title insurance including**Integration** of property databases like MPAC, internal MAD – Master Address Database.

**Document Management Service** DMS to store documents and retrieve them.

**Policy Service** - Policy Creation, Issuance, Modification and Cancellation.

**Reporting Services** to various parts of the title insurance process and providing analytics and reports to help Appraisers and Under Writers.

**Human Resources** – Payroll processing, employee compensation, tax deductions, benefits, Personal Employment Confirmation Information including sending and receiving data related to personal employment confirmation, such as employment status, compensation details, and other relevant information.

**Test-Dev Environments** - DIT, SIT, PreProd, DR,Prod Environment including Cloud with VPOD Dancing concepts to creating, testing, and deploying applications or solutions

**Global Commerce, e-Commerce:** Localization and Internationalization of online buy and sell of items including Payment and service modules

**EDUCATION**

* Master of Computer Applications - MCA
* Bachelor of Science – B.Sc. in Electronics

**TECHNOLOGY & PRO SKILLS**

**Software Engineering Methodologies:** Agile SDLC, STLC, ITIL, Iterative Spiral and Waterfall

**Database:** MS SQL Server & MS Access, Oracle and Oracle Client Toad

**Programming & Scripting language:** C#, Java Script, C Script

**Testing Tools:** Coded UI C# using VS 2022, Selenium Protractor, Appium and Eggplant, POS, Katalon, CypressLoadRunner, Perf Mon, Post Man, SOAP UI with Swagger Style, 4NT, Robo Copy, Telnet

**Configuration Management:** Azure DevSecOps, GitHub, MTM, QC, HPALM, WordPress, Joomla

**Publishing Tools:** MS- Word, Excel, PowerPoint, MPP, Visio

**Data Management Tools:** TFS, SharePoint, ServNow, HPALM, Jira

**Web Technologies:** XML & HTML 5, SEO

**Operating System:** Windows, MAC, Linux, Mobile - Android, IOS

**Process & People Management:**

* Managing a team with 10+ Members
* Vendor & Stakeholder management,
* DevOps, Agile, SDLC, STLC
* UAT, RFP, RFQ, SLA, SOW
* Test Architect, Test Lab Set Up and Server Topology
* Migration, Upgradation, Rationalization, Transition, Transformation, Reverse Engineering and Optimization

**DEVELOPMENT SKILLS**

* Hands-on Object-Oriented Programming Concepts.
* Hands-on REST and SOAP API Automation using C# with REST Sharp with Swagger standards.
* Hands-on Unified test class testing framework design and implementation from scratch.
* Hands-on implementation of different test date set using EXCEL, XML and JSON formats.
* Hands-on Computer clusters and Virtualization server topologies.
* Cloud Computing Skills (AWS and Azure) pursuing Certifications.

**WORK EXPERIENCE:**

**TechSol Corporation\Techsol Life Sciences**

**QA SDETAutomation**

**Location: Princeton, NJ Jun 2023 to Till Date**

**Responsibilities:**

WorkFlow based web application productsinteract with the web service in a manner prescribed by its description using web UI, [SOAP](https://en.wikipedia.org/wiki/SOAP), and REST API

**Responsibilities:**

* Performed cross-browser testing and parallel testing on Chrome, Edge, Firefox, and Safari using the Selenium web driver framework.
* Working on a grouping of test suites, test cases, and test methods for regression and functional testing using Azure DevOps Build and Release Pipelines, Tags, and Test Plan.
* Conducted various meetings with QA, Business analysts, and developers.
* Created Functional testing, regression Testing using Selenium with Data-driven framework, Key- Word driven framework over Page Factory Model to test web applications using Selenium Web Driver with Java, and JS.
* Using Selenium Grid to run test scripts on different platforms &and different browsers in parallel to save time.
* Thorough experience in implementing Automation tools Selenium WebDriver using Javato test UI and API (SOAP and REST protocols).
* Shared Daily Status Reports with all the team members, Team Leads, and Managers.
* Environments: Selenium WebDriver, Java, JavaScript, Node.JS, Restful and SOAP API Testing, Rest Assured
* Written test scripts in Selenium Java and running commands to interact with the application, validate user actions, and ensure functionality. Selenium tools and libraries to automate browser-based testing. Interact with web elements and simulate user actions using the POM module and capturing ID\Name\CSS\XPath to identify the element to verify that web applications function correctly across different browsers and platforms.
* Rest Assured and SOAP protocol to make HTTP requests and validate the responses is a Java-based library that simplifies testing RESTful web servicesfor API testingensuring they meet the expected standards and produce the correct responses.

**Client: First American Financial Corporation**

**QA -Automation Engineer TechLead**

**Location: Princeton, NJ Aug 2019 to May 2023**

**Responsibilities:**

Management System, **CSOnline** – Commercial Services, **CL** - Collect Link – **LE**-Lender Exchange productsinteract with the web service in a manner prescribed by its description using web UI, [SOAP](https://en.wikipedia.org/wiki/SOAP) and REST API

**Managing and Delivery (Manual and Automation)**

* Building up and leading the Testing Team to the delivery of the project
* Defining the scope of testing within the context of each release/delivery
* Planning, deploying, and managing the testing effort for any given engagement.

**Product Management**

* Managing Scrum Masters and Business Analysts - Creating User Story Acceptance Criteria to get Buy-In from Stakeholders and refine stories with the Scrum Team
* Participate in developing and documenting User Stories by providing the test strategy and test scenariosestimate and automate.
* Owning the planning & scheduling of a two-week sprint and articulating the product vision to the Engineering team and setting up product goals.
* Managed and re-prioritized the product backlog based on the available capacity of the Scrum Team.

**Responsibilities:**

* Conducted various meetings with QA, Business analysts, and developers.
* Participate in analysing Major Incidents and Emergency Change controls to identify opportunities to automate software quality test cases to reduce or eliminate those.
* Created Functional testing and regression Testing using Selenium with a Data-driven framework and Key- Word driven framework over Page Factory Model to test web applications using Selenium Web Driver with C# and JS.
* Using Selenium Grid to run test scripts on different platforms &and against different browsers in parallel to save time.
* Proficient in Java development with a solid understanding of object-oriented programming (OOP) principles, data structures, and algorithms.
* Extensive automation experience with Java frameworks application such as Spring and building enterprise-level applications, emphasizing modular and maintainable code.
* Automated testing of dynamic web applications using Java-based frameworks like Spring MVC, incorporating RESTful services for seamless client-server communication.
* Automated testing of server-side logic, including authentication, authorization, and data manipulation.Proficient in identifying and resolving complex issues through effective troubleshooting and debugging techniques, ensuring the stability and reliability of Java applications.
* Used Appium and andEggplant on POSto execute the test scripts periodically on Selenium Grid for different platforms like desktop, tablet, and mobile.
* Performed cross-browser testing and parallel testing on Chrome, Edge, Firefox, and Safari using the Selenium web driver framework.
* Working on a grouping of test suites, test cases, and test methods for regression and functional testing using Azure DevOps Build and Release Pipelines, Tags, and Test Plan.
* Utilized System Collections library to build Excel objects to read test data from the Excel spreadsheets and load them into required test cases.
* Utilized Microsoft Exchange Web Services library to read and send emails.
* Administered and Engineered Azure DevOps for managing weekly Build, Test, and Deploy chain with Dev(DIT)/Test(SIT)/PreProd Branching Model for weekly releases.
* Handled Selenium Synchronization problems using Dynamic Implicit waits during regression testing.
* Working on mobile automation using Appium, and Eggplant integrating for POS devices, selenium, and Java in both Android and IOS.
* Writing complex relative XPATH using following and preceding and also using functions like contains and not contains.
* Executed test cases in real devices for both mobile app and mobile website.
* Thorough experience in implementing Automation tools Selenium WebDriver using C#, Native, Web and Hybrid apps UI and API (SOAP and REST protocols).
* Shared Daily Status Reports with all the team members, Team Leads, and Managers.

**Environments**: Selenium WebDriver, C#, Java, JavaScript, Node.JS, Restful and SOAP API Testing, Rest Assured, Windows, Android and iOS.

Worked on HCM product testing of Workday and Concur integration testing which includes micro services, talent acquisition, payroll and adoption/reporting processing, employee compensation, tax deductions, benefits, Personal Employment Confirmation Information including sending and receiving data related to personal employment confirmation, such as employment status, compensation details, and other relevant information(SaaS module integration of workday and Concur through informatic tool by creating objects)

Eggplant is used to integrate for end-to-end testing, including the integration testing of Point of Sale (POS) systems.

* Automate the process of adding and modifying products in the POS system, validating that inventory records are accurately updated.
* Simulated credit card transactions, ensuring proper communication with the payment gateway and capturing authorization responses.
* Scripted to perform stock-level updates and confirm synchronization with the inventory management system.
* Achieved Sprint level automation by scripting test cases using TDD approaches, such as Red fail, Green pass and blue refactoring of scripts. TDD enhanced test coverage.
* Enhanced TDD to BDD frameworks testing frameworksand also integrated to CI-CD.
* written test scripts in Playwright\Cypress in JavaScript and ran commands to interact with the application, validate user actions, and ensure functionality. Playwright\Cypress test execution, maintenance, and reporting. Using Playwright\Cypress tool for quality assurance and continuous integration, ensuring that web applications perform as expected, enhancing and minimizing defects.
* Rest Assured and SOAP protocol to make HTTP requests and validate the responses is a Java-based library that simplifies testing RESTful web servicesfor API testingensuring they meet the expected standards and produce the correct responses.
* Used JavaScript to build test automation framework on React Native Architectureframework to build mobile applications using React andAngular JS.
* Performed performance testing using JMeter and Gatling on multiple projects with functional UI and API testing
* Created Build and Release Pipelines and Utilized Azure DevOps, and GIT to test execution to run sanity and regression testing on every build (CI-CD) using Jenkins and other task add-ins. Utilized Azure DevOps pipelines to test execution to run sanity and regression testing on every build (CI-CD).
* Validating Backend through writing and executing SQL Queriesand stored procedures.

**Client: DELL Technologies Inc**

**QA Test Lead**

**Location: Bangalore, India Sep 2015 to July 2019**

**Responsibilities:**

Working on multiple products of Dell.com products are an E-Commerce and G-Commerce website for E2E solutions for Commerce stores and customers for B2C business. Has a lot of internal tools to handle the sales. Pipeline architecture to handle Payment, Fraud, Trade Compliance, Product-SKUs-Customer-Address verification &validation, Wide acceptance of latest payment methods like BitCoin, Multiple Credit\Debit Card, PayPal, Net banking and lease-based Payment acceptance.

* Defining Stories and prioritizing the Team Backlog to streamline the execution of program priorities by maintaining the conceptual and technical integrity of the Features\components for the team with the help of a Business Analyst to write stories and acceptance criteria.
* Apply Behaviour-Driven Development (BDD) & ensuring stories meet the business user’s needs and comply with the Definition of Done.
* Experience in Feature files ofBDD frameworks testing frameworksusing the Gherkin syntax, which includes keywords like Given, When, Then, And, and But.
* Collaborate with System and Solution Architect/Engineering to assist with decision-making and sequencing of the critical technologicalinfrastructures that will host the new business functionality.
* Responsible for the automation of various features & IT applications using the Robot framework.
* Worked on Robot framework development, enhancement of the selenium libraries, and scripting the test cases.
* Developing shell scripting codes depending on the test requirement to support the backend framework.
* Automating the test cases for the drafted test scenarios, preparing test traceability Matrix (TTM), and test case execution for various servicesproviders.
* Set up the Hybrid Automation framework using C# to execute test cases in multiple browsers and platforms.
* Implemented Page Object Design Pattern along with Page Factory to drive Selenium scripts.
* Experience executing parallel testing using Selenium Grid.
* Performed Sanity, Functional, Negative, Regression, System, Integration, End to End, and Backend testing.
* Performed automated API or web services and Rest Assured of SOAP/REST web APIs.
* Performed and automated Accessibility testing using ANDI and selenium automation and manually.

**Environment**: SOAP/REST web APIs, Selenium, TestNG, Web Driver, GitHub, Windows, Python, JavaScript, Shell Scripts.

Worked on Playwright\Cypress, Amazon AWS cloud integration and Lambda testing along with Karate automation on multiple micro services of Dell.com e-commerce and g-commerce web and mobile applications.

Also Worked on ETL testing using Informatica PowerCenter and IICS to extract data from various sources of the dell.com website, mobile app, CRM and third-party platforms like social media and advertising channels. This data can encompass a wide array of information, including customer transactions, website visits, product inventory, user reviews, and much more to transform it into meaningful information, and load it into target systems as data warehouses, databases.

* Created testing framework using TestComplete, automated manydifferent software test types usingJunit and TestNG framework along with Selenium. Written test scripts for UI and API in Java and ran commands to interact with the application, and validate user actions by test execution, maintenance, and reporting. ensuring that web applications perform as expected, enhancing and minimizing defects.
* Over TestComplete using TestNG and Java with Maven project created POM based testing framework to automate Keyword, data-driven testing.
* Over TestComplete using TestNG and Java with Maven project automated UI and API testing and validating both in one go by creating test scripts to cover UI and API.

**Client: Cloud Nine Work Group**

**QA -Automation Engineer TechLead**

**Location: Bangalore, India Sep 2013 to Aug 2015**

**Responsibilities:**

ISignagePlus web application is fully secured and cloud-based customizable software for Digital Signage. It is developed based on 3WH requirements (What - Content, When -Schedule, Where - Display IDP and How - Design). Administrators can generate Ads based invoices, Time-based invoices and log reports with detailed information about the Ads.

* Maintain Docs -Visio Diagram to represent One-way trust, Two-way trust and Trusted domains using ADC – Active directory controller to make the team understand the concept and test in a better way.
* Creating and Keeping Matrix Representation of test scenario to ease understanding and test the system.
* Identify Bugs\Issues by Guiding the team to use testing techniques like BVA – Boundary Value Analysis, Equivalence Partitioning and error guessing to cover the testing scenario in the test case preparation.
* Coordinate Bug Fixes with Dev Teams - ensure stability & usability that those bugs have been eliminated.
* Performed integration testing between Web Client application and Android/ iOS devices.
* Software testing of the startup company’s mobile and web applications for emergency panic button devices.
* Performed mobile application testing on iOS, Android.
* Performed website functionality testing.
* Performed REST API testing using Postman as a tool and Swagger as API documentation.

**Environment**: IDP’s, DNS, SMTP, WAN, LAN, Windows, C#, Shell Scripts.

**Technologies used:**

Appium, Protractor framework, Appium Studio, Android studio, JAVA, JavaScript for Native, Web and Hybrid applications automation, Devices – IOS, Android and browser (Chrome, Firefox, Edge and Safari).

**Client: SHARP**

**Role: QA – TechLead**

**Location: Bangalore, India Apr 2008 to Sep 2013**

**Responsibilities:**

Sharp-world and SharpShooterClub are finished web products of CDA engine that provides cloud-based Content Management System, which is used to deliver product, driver and patch releases and also used for campaigns to improve sales. CMA- Content Management Application is used for backend operations.

* Guiding, Reviewing and Conducting brainstorming sessions to prepare test scenarios for test case coverage.
* Preparing network topology to understand the NetBIOS, LDAP, TCP/IP, UDP, Network Ports, Firewall, DNS, SMTP, WAN, LAN and classification of IP Addresses to understand and test the requirements.
* Security Testing using PEN, SQL and HTML injection and NFR testing using Load Runner and UI QTP
* Performed integration testing between Web Client application and Android/ iOS devices.
* Performed Functional, Regression, Smoke testing, Sanity testing, back-end testing, exploratory testing, and localization testing to ensure products meet business requirements and functional specifications of Web and Mobile applications.

**Environment**: DNS, SMTP, WAN, LAN, ID’s, Windows, QTP, C# CodedUI, Shell Scripts