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| **SHEETAL RASTOGI** | e.srastogi@gmail.com  Flat No. E-604, Mantri Splendor, Hennur main road, Geddalahalli, Bangalore, India  +91 (920)-551-6616 |

Proactive, result oriented, seasoned professional with over 14 yrs. of experience in authoring, building and adopting enterprise scale, cross platform automation frameworks for Desktop, Web, Mobile, Web Services & Database products and applications.

**Professional Summary**

* Expertise in Authoring **Keyword driven** / **Data driven** / **ATDD** / **TDD** / **BDD** automation frameworks from scratch for Agile & traditional development environments for improved collaboration and early feedback.
* Strong experience with **POM**, **MVC**, **Core Java** & **Spring frameworks** to meet Parallel & multithreaded execution of automation scripts.
* Expertise in enhancing / authoring frameworks to
  + Integrate with **CSV / excel / JSON / QR Code based test data**
  + Integrate with **Cloud bees, Perfecto** or any similar PaaS platforms.
  + Enhance automated provisioning / deprovisioning of **golden test data set** for Unattended execution
  + Automate Top 10 **OWASP vulnerabilities** from desktop / web / web-services / database front.
  + Integrate with **AWS, Docker or Google cloud** platforms
  + Integrate with automated **code quality** scanners like **Jacoco**, **SonarQube**
  + Integrate with **JIRA** / **VersionOne** to generate data for automation Metrics
  + Integrate with **Hashicorp** **Vault** or equivalent Key based tools for sensitive data encryption with test data.
  + Integrate **video recording** for automation runs
  + **Watermark screenshots** with current timestamp to track results.
  + Integrate basic **OCR** / **Visual Testing** to automate PDF, Look and feel.
* Agile evangelist for XP and pair programming.
* Solution oriented with excellent communication and interpersonal skills.
* Strong experience in automating test infrastructure (local/cloud based) for test environment needs.
* Expert in defining and develop **Threat modelling**, **SWAT analysis** of products for security and Vulnerability assessment of application under test.
* Can automate **Usability testing** with **OCR** and **custom image comparison** algorithms.
* Proficient in methodologies to estimate testing tasks

**Education** Masters of Computer application – IGNOU, India (2001 to 2004)

**Certification** Project Management Professional (PMP) – 2010 – till date

Microsoft Certified Solutions Developer – 2001 – 2004

Microsoft Certified Professional for MS Project 2008 – till date

**Technical Skills**

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| Automation Frameworks | **POM**, **MVC**, **TestNG**, **JBehave**, **Cucumber**, **JUnit**, **Robot framework**, **Core Java**, **Java Spring based framework**. |
| CI/CT | **Jenkins**, **Maven**, **Bamboo**, Octopus |
| API / WebServices | REST/Soap services automation with **HttpClient**, **Rest Assured**, **JAX**, **WinHttpClient**, **Jackson**, **XmlSuite** |
| Tools/IDEs | Eclipse, Visual Studio, Intelli J, Spring Tool Suite |
| Development methodologies | JAD, Prototyping, RAD, Iterative, **Agile** (scrum, canban, XP, Pair Programming) |
| Code quality | **Jacoco**, **Sonar cube**, IMD and **manual code reviews** |
| Performance testing | **HAR** (Selenium WebDriver based), **JMeter**, Gatling |
| Mobile / Desktop / Web Automation | **Selenium WebDriver**, **Appium**, **Winium**, **Calabash**, **UIAutomator**, Robo framework, **Sikuli**, **QTP**, **UFT**, **RFT**, **Protractor**, **Jasmine**, Jest |
| Version control | **Git**, **Bitbucket** |
| Defect / Project tracking | **JIRA**, **HPQC**, **MS Project**, **Confluence**, **ZAPI**, **Rally**, **VersionOne, SharePoint** |
| Languages | **Java**, **JavaScript**, **VBScript**, **PLSQL**, **Groovy**, **shell script**, **Apple script** |
| Databases | **MS SQL, MySQL, Oracle, NoSQL, DB2** |
| Test Infrastructure | Local Mobile **lab setup for mobile automation**, **Virtual Machine** based test environments, **Perfecto/CloudBee** based automation environments, **Docker image** based test environment / infrastructure setup for automation needs. |
| Estimation | **COCOMO**, **Agile poker**, Delphi, 3M, **Function Point Analysis** |
| Data security | **Hashicorp Vault, Java Key Store** based custom encryption |
| Security testing | **Kali Linux**, **NMAP**, **Fiddler** and **custom Java based network / traffic / system scanners**. |
| Compliance testing | SOX, PCIDSS validation using UI, API & infrastructure hacking |
| Test reports | **Video recording** enabled reports of automation execution with support for **Serenity reports**, **Extent reports**, **Cucumber reports** and **Clu-cumber reports**. |
| OS | **Windows, Linux (Susie, Debian, Redhat), As400, Mac, Android, iOS** |

**Experience Summary**

**March 2021 – till date**

Company: InterGlobe Technologies, Role: Test Architect, Client ADT, Role: Individual Contributor

**Project – JST (Job Scheduling Tool)**

JST Provides backend configuration and provisioning of technicians and officess to schedule jobs, technician and track progress by setting up offices, skills, utilization and assignments.

As an Individual contributor I have worked on smooth transition of automation scripts for regression needs to maintain test coverage, early feedback, track results for unattended execution.

**Technology stack**: Java TestNG based POM framework, which integrates with Git, Maven.

**November 2018 – August 2020**

Company: CIGNEX DATAMATICS, Role: Test Architect, Client: AllState, Client role: Test Architect

**Project – Encompass**

This is a complex suite of 8 different products which supports and integrates with 3rd Party Vendors, agencies and their onboarding processes, end to end management of policy lifecycle from issuance, endorsement and renewals, backend monitoring of policies (renewal/issuance rates) and agency performance management. It integrates with online payments gateways, rules and rating engine as MyEncompass product suite.

As an Automation architect I have streamlined many aspects of Automation testing to improve overall test coverage, early feedback, track results for unattended Metrics and production defects triage, following contributions / enhancements to existing processes:

* Integrated **rule based execution of automation scripts** by integration with DROOLs engine.
* Improved **feedback time** from automation test coverage by introducing CI/CT integration of all existing Automation scripts.
* Integration of existing framework with **JIRA/ZAPI** for unattended Automation metrices collection
* Significantly improved release timeline by bringing in “**WebServices Automation**”

(it was manual tested by team)

* Improved testing during environment downtimes by bringing in “**WebServices Virtualization**” with ReadyAPI
* Improved code quality by integrating existing framework with **Jacoco**.
* Integration of testing with **Delphix** and custom Data generation utilities
* Integration of existing framework with **HashiCorp Vault** for PI/Sensitive data encryption.
* Standardized process for **Automation estimates**, **code review**, **github branching** to improve code stability.
* **Evaluated and recommended “EggPlant” tool’s** purchase by evaluating against TenFold platform, & SAP platform automation needs.
* Recommended in-house mobile / emulators based testing to avoid cost.

**Technology stack**: Java TestNG based BDD framework, which integrates with Git, Maven, JIRA/ZAPI, HashiCorp Vault, Delphix, Splunk, Azure Work Space (Azure cloud), Perfecto (for mobile/desktop testing needs), Jenkins, Artifactory on TenFold, Desktop, Web, Mobile, SAP, DB2 & Oracle Datacentres and REST WebServices integration with multiple products.

**Jan 2018 – September 2018**

Company: Attra Infotech, Role: Test Architect, Client: MasterCard, Client role: SDET

**Project –Emirates Digital Wallet (Acquiring)**

This project was developed to supports all acquiring and processing needs of prepaid cards for Emirates Airlines based on Master card and affliated networks worldwide. As an SDET I have following contributions / enhancements to JBehave based BDD framework based on Spring framework in Java and Jasmine:

* Improved automation coverage by bringing “**ATM Simulators automation**” to existing framework via **Winium**. (earlier it was all manual testing)
* Enhanced existing framework to integrate with **QR Code** **based card data integration**.
* Eliminated Excel based conflicts for git repository by introducing **CSV based test data integration** to automation framework.
* Involved in **PCIDSS compliance** validations and test planning.
* Involved in **integration with VISA network simulators**

**Technology stack**: Java Spring (JBehave based BDD framework designed with MVC architectural pattern) which integrates with SonarQube, Splunk, Git, Bitbucket, Bamboo, Serenity, Maven, Jenkins, Simulators and regulatory requirements of PCIDSS.

**October 2016 – Jan 2018**

Company: Qwikcilver, Role: Test Architect

**Project – Woohoo**

This product serves as backend for onboarding Semi Closed Loop Prepaid cards and digital Wallet programs for organizations on Qwikcilver network. It manages entire Prepaid card life cycle right from Merchant provisioning, Card issuance, card transaction processing, Card expiry and rules based cards Cashback programs.

As a Test Architect, I have following contributions

* Refactored entire framework to support POM framework with Extent report integration.
* Improved automation quality of scripts by extending following features in new framework
  + Parallel execution
  + Rerun of failed tests
  + Custom Java annotations to parameterize local/remote execution with Selenium Grid.
  + Integration of framework with Appium grid for Android/iOS devices automation with inhouse mobile lab
  + Windows/Linux independent scripts execution
  + WebServices automation with HttpClient
* Implemented Jenkins pipelines to progressively test product under testing for sanity, functional and regression testing needs from Automation scripts.
* Implemented testing practice for "fail over testing of database" for disaster scenarios.
* Improved performance benchmarking by automating monitoring of key parameters for impact analysis of Databases, Hardware CPUs & OS constraints
* Enhanced automation framework to support Windows & Linux environments

**Technology stack**: Java, TestNG, HttpClient, Selenium WebDriver, Appium, ExtentReports, POI, JMeter, Log4J, Agile (scrum), Maven / Jenkins, MS SQL server.

**July 2015 – August 2016**

Company: Unisys global services, Role: Consultant

**Project – Unisys TNG**

TNG is Unisys proprietary platform to onboard airlines worldwide for their Passenger / Cargo reservation and logistics management needs. It caters to booking, bin/seat management, flight status and airport management and related needs of 65% of airlines worldwide.

As a test consultant, I have opportunity to bring in following improvements to existing automation practices:

* **Saved On UFT license cost** by introducing TestNG, HttpClient based automation framework for Web UI and WebServices automation with following features:
  + JSON/XML Based object repository
  + POI/Excel based test data
* Instrumental in **migrating existing UFT based automated scripts to Selenium WebDriver**.
* Involved in review of testing practices to meet **TMMi guidelines** for **Defect prediction**.

**Technology stack**: Java, UFT, HttpClient, Windows VM, Agile (Kanban), DB2, As400, TMMi, JUnit, POI, Selenium WebDriver

**December 2010 – December 2014**

Company: GalaxeSolutions, Role: Test Manager

**Project – CVS Pharmacy**

CVS Pharmacy system provides Medical insurance coverage and pharmacy cost and delivery at store or mail. This supports processing of pharmacy dispensation and costing for range of policies as per rules of different states and changing health programs from time to time. Based out of As400/DB2, this product exposes webservices to onboard policies and pharmaceutical transactions by policy holders and stores.

As a test manager, I have worked with senior management and stakeholders to improve confidence on releases by working on following action areas:

* Enhance and upgrade existing QTP based framework **for end to end automation coverage**
* Automation of Sanity, Functional and Regression tests scripts for unattended execution
* Introduced **VBScript based automation of WebServices** (WinHttpClient5.x) to address improved automation coverage needs
* Development of Excel based utilities to generate test data for Policy creation with As400/DB2 environment.
* **Integrated HPQC with QTP scripts** for Automation metrics collection
* Introduced measures to assess process for **test maturity** and setting up **Objectives and roles** within team
* Introduced **agile practices** to bring early feedback and **continuous improvement** to testing practice.

**Technology stack**: As400/DB2, QTP, WinHttpClient.5.1, HPQC

**April 2007 – December 2010**

Company: MindTree, Role: Sr. Test Lead, Client: Yahoo, Client role: Test Lead

**Project – Small & Medium Business India (SMBI)**

SMBI is a Cloud based platform to bring merchants and business on web. It caters to the Online presence of small and medium businesses to launch their online stores and integrate them with Citibank payment gateway.

As a Test lead to this project I have following contributions:

* Development of **Selenium RC based automation** for Provisioning and deprovisioning of online stores.
* Automate user / email provisioning and integration with **Java based mail client**
* Involved in test planning and test optimization for Throttling, Billing & Payment Gateway Integration
* **Hudson/Maven based Unattended execution** of selenium scripts.
* Developed **Automation for XSS, Dos, DDoS, CSRF, Session Hijacking, cookies and other security threats** for Cloud deployments.
* Test planning and review of **Integration scenarios with Citibank payment gateway** (OTP based
  + authorization)
* Optimizing security **vulnerability assessment** by performing **threat profiling** of application for Database, Operating system, Deployment configuration and 3rd Party libraries.
* **Compliance tests for PCIDSS/PADSS standards** for Payment information access and monitoring.
* Agile evangelist for **XP** and **pair programming**

**Technology stack**: Selenium RC, Java, Security testing, Payment gateways integration, Agile

**August 2004 – April 2006**

Company: First American Inc., Role: Sr. QA Engineer

**Project – Transaction management platform (TMP)**

Transaction management platform is core underwriting engine to process Property Insurance and associated claims / risks for policies issued for different states of United states. It integrates with banking solutions, Property listing platforms, Geo Maps as well as it’s own database to assess policy risks, insurer’s credit ratings, property transactions for ownership details, comparative search and assess true value of property.

As a Sr. QA Engineer, I had following responsibilities

* Develop automation scripts using RFT (Rational Functional Tester)
* Cross browser testing
* Develop SQL scripts to emulate transaction on insured properties
* Review and develop test scripts traceability for coverage analysis and gaps
* Provide estimates for Automation efforts as part of ongoing development cycles

**Technology stack**: As400/DB2, RFT, Oracle, Cross browser testing