

Professional **Senior Developer in Test** with over **15** years of experience in a wide range of business sectors like **Airlines, Insurance, Finance, Public and Retail** sectors using the technologies like **Selenium Webdriver, Rest-assured, SOAPUI, Cucumber-jvm, CucumberJS, Cypress, PlayWright, AngularJS, ReactJS, Javascript, Typescript, Java 11, J2EE, Python, Docker, Kubernetes, Terraform, Azure DevOps, Google Cloud, AWS, Spring Boot, RabbitMQ, TestNG, JUnit, BDD and TDD.**

- Have over **8 years of QA Automation testing experience in Selenium Webdriver using Java, Python, Cucumber-JVM, Serenity, Cypress, CucumberJS, Rest-assured, Rest Sharp and SOAPUI**
- Have **7 years of design & development experience in Java with Micro services & J2EE technologies**
- Extensive experience on design and **creating Selenium framework from scratch using Page Object model.**
- Good experience in design & developing web automation framework using **Playwright and Java.**
- Strong experience in creating api automation framework using **Rest-assured, Spring Boot, Junit & TestNG.**
- Good experience in developing web automation framework using **Cypress, Javascript.**
- Experience in developing web automation framework using **Python, Selenium.**
- Good experience in creating mock frameworks using **Wiremock.**
- Proficient in unit testing frameworks such as **Junit and TestNG.**
- Experience in Behaviour driven development (**BDD**) using **Cucumber-JVM, Gherkin.**
- Strong experience in **Selenium Grid** for running a test suite with multiple Virtual machines using Selenium Server.
- Good experience working with **Agile Scrum methodology in Agile environment**
- Proficient in cross browser testing using **Chrome, Firefox, Edge and Safari**
- Used **BrowserStack** to test web apps and mobile applications across on-demand browsers, operating systems and real mobile devices.
- Very strong in building **Smoke, Integration and Regression** test packs..
- Extensive experience in writing **Test Plan, Test Strategy, Test Cases** and designing the test solution architecture.
- Good experience in quickly designing and building the frameworks using **JED (Just Enough Design)**
- Extensive experience in testing **SOAP and Restful web services.**
- Experienced in contract rest services testing using **PACT.**
- Experience in Configuring the Functional and Regression automation scripts in **CI/CD pipelines** using **Jenkins** and run Scripts periodically
- Good understanding of **SaaS, PaaS, IaaS** and general networking and infrastructure.
- Good experience with non-functional/performance testing using **LOAD UI and JMeter**
- Responsible for **Vulnerability assessment and Security Testing** including **OWASP Top 10, SAST, DAST, and IAST.**
- Experienced in **Accessibility** testing against **WCAG AA** standard using **PA11Y, Axe-core, Wave** and **browser plugins.**
- Experienced in writing PL/SQL with Relational Databases **Oracle, My SQL.**
- Extensively worked with **IntelliJ Idea, Visual Studio and Eclipse** integrated development tools.
- Proficient in using **Docker, Kubernetes** and cloud environments like **AWS** and **Google Cloud with Terraform.**
- Experience in using continuous integration servers like **Jenkins and Cruise control.**
- Good understanding of the Software Test Life Cycle across various development methodologies such as **Agile** and waterfall.
- Strong experience in MVC Frameworks like **Struts, Spring MVC, Spring IOC, Spring Boot, EJB and Hibernate.**
- Extensive experience in analysis, design, development and testing of web applications using **Java, JSP, Servlets, JDBC, Struts, Spring Boot, REST, SOAP, SQL, PL/SQL, JAXB and web services (JAX-RS)**
- Strong experience in design and development of web applications using **JSP, JSON, JSTL, HTML, XML, DOM, XSLT, XPATH** and **Java script**
- Experienced in building tools like **Maven, Gradle, Gulp, Yarn** and static code analysis tools like **SonarQube.**
- Good Communication skills, interacting calibre and adaptation to quick learning, ability to accomplish deadlines.
- Experienced with version controls like **GitHub, Bitbucket and Gitlab.**

Certifications

- Sun certified java programmer
- ISTQB certified

Education

- Bachelor of Technology from J.N.T. University.

Technical Skills

Automation Tools	Selenium Webdriver, Selenium GRID, Protractor, Rest-assured, JUNIT, TestNG, Wiremock, Cucumber-JVM, Cypress, CucumberJS, SOAP UI, Terraform
Languages	Java, Python, javascript, C, C++, Gherkin, UML, SQL and PL/SQL
Tracking Tools	JIRA, ClearQuest and Quality Center
Methodologies	Agile Scrum, Waterfall
Build Tools	Maven, Gradle, Gulp
Continuous Integration	Jenkins, Cruise Control
UI Development Packages	HTML, Java Script, AngularJS, Json, Ajax, CSS
Middleware	Rest and SOAP Web services, JDBC, Oracle Fusion Middleware
Server-Side Applications	Servlets, JSP.
Frameworks	Struts, Spring MVC, Spring Boot, EJB, Hibernate.
Databases	Oracle, SQL Server, My SQL
Operating Systems	Mac, Windows, Unix, Linux
Design Methodologies	Design Patterns for Java, UML
Version Control Software	GitHub, Bitbucket and Gitlab
RDBMS Tools	SQL Developer, DBVisualizer, DBeaver
Cloud Tools	AWS, Google Cloud

Work Experience

Senior Developer in Test

Home Office, UK

Oct 2024 to Till date

Project Description: The Home Office is responsible for immigration, passports, drugs, crime, fire, counter-terrorism and police in the UK.

Development Environment: Java 11, Spring boot3, Docker, AWS, React JS, Maven.

QA Environment: Java 11, Cucumber, Spring Boot 3, Postman, TDD, BDD, Rest-assured, Jenkins, IntelliJ IDEA, GIT, Maven and JIRA.

Responsibilities

- Involved in writing automation scripts for web using **Cucumber, Selenium, Java 11 and Spring Boot 3**.
- Responsible for writing automation for apis using **cucumber, rest assured and Spring Boot 3**.
- Involved in interacting with stakeholders to gather requirements, analysing the risks.
- Followed Agile Scrum methodology, participated in **Grooming, Sprint Planning and Retrospective** meetings.
- Responsible for generating and analysing **cucumber reports and presenting them to management and stakeholders**.
- Configured **Smoke, Integration, Regression packs for both Web and API in Jenkins** to run periodically.
- Have responsibility for writing **component tests, integration tests and end to end regression suites** for the application.
- Used **bug-tracking tool JIRA** to raise and track the defects.

Senior Developer in Test

Bank of England, UK

May 2024 to Sep 2024

Project Description: Bank of England is the UK’s central bank. Its mission is to deliver monetary and financial stability for the people of the United Kingdom.

Development Environment: Macrobond, Microsoft Purview, Databricks, Python, Microsoft Azure.

QA Environment: Java 11, Cucumber, Spring Boot 3, Postman, TDD, BDD, Rest-assured, Github Actions, IntelliJ IDEA, GIT, Maven and JIRA.

Responsibilities

- Designed and developed automation framework for micro services using **Java 11, Rest-assured, Spring Boot 3, Maven and cucumber-JVM**.
- Responsible for writing **unit tests using Junit and Mockito** to ensure common components of the framework are implemented with good quality.
- Involved in preparing **test strategy** and developed test data and test conditions.
- Involved in interacting with stakeholders to gather requirements, analysing the risks.
- Involved in writing cucumber feature files using **Scenario, Scenario Outline, Background, Tags and Hooks**.
- Followed Agile Scrum methodology, participated in **Grooming, Sprint Planning and Retrospective** meetings.

Senior Developer in Test

Lloyds Bank, UK

Dec 2022 to Apr 2024

Project Description: Lloyds Bank plc is a British retail and commercial bank with branches across England and Wales. It is the largest retail bank in Britain.

Development Environment: Java 11, Spring Boot 3, Google Cloud, Micro Services, Restful Web services, Git, Jenkins, Docker, Kubernetes, Terraform, Kafka, Informatica Reference 360 and Collibra.

QA Environment: Java 11, Cucumber, Spring Boot 3, Wiremock, Postman, TDD, BDD, Rest-assured, Playwright, Jenkins, IntelliJ IDEA, GIT, Maven and JIRA.

Responsibilities

- Designed and developed automation framework for micro services using **Java 11, Rest-assured, Spring Boot 3, Maven and cucumber-JVM**.
- Designed and developed web automation testing framework using **Playwright with Java 11, Spring Boot 3, Maven and cucumber-JVM**.
- Responsible for writing **unit tests using Junit and Mockito** to ensure common components of the framework are implemented with good quality.
- Designed and developed a mock framework using **Wiremock** for component tests.
- Designed and developed contract testing (consumer & provider) using **PACT**.
- Followed Agile Scrum methodology, participated in **Grooming, Sprint Planning and Retrospective** meetings.
- Followed the continuous delivery design practice techniques such as **automated testing, continuous integration and continuous deployments**.
- Involved in writing cucumber feature files using **Scenario, Scenario Outline, Background, Tags and Hooks**.
- Responsible for creating stubs using **wiremock** to replicate datasets as in Informatica reference 360 for component tests.
- Involved in **infrastructure testing** to validate the services created by Terrrform script.
- Responsible for querying and validating data stored in **bigquery** in google cloud.
- Responsible for **parallelising** the regression tests to make them run quicker.
- Involved in configuring **CI/CD pipeline using jenkins** jobs to run component and E2E tests in the pipeline.
- Responsible for **manual testing** of some areas of the application.
- Involved in **Accessibility** testing of the application.
- Responsible for **Vulnerability assessment and Security Testing**.
- Responsible for performance testing of APIs using **Jmeter**.
- Responsible for generating and analysing **cucumber reports and presenting them to management and stakeholders**.
- Configured **Smoke, Integration, Regression packs for both Web and API in Jenkins** to run periodically.
- Performed **functional, system and exploratory testing** for web interface and backend services.
- Have responsibility for writing **component tests, integration tests and end to end regression suites** for the application.
- Used **bug-tracking tool JIRA** to raise and track the defects.
- Responsible for setting up and enforcing **best test automation practices**.
- Followed **BDD approach** to create Smoke and Regression automation scripts.

- **Mentoring team members** on technical issues and ensuring we follow the best practices.
- Responsible for **reviewing the code** on a regular basis and ensuring the quality of the code delivered.

Senior Developer in Test

Virgin Media, UK

Sep 2020 to Nov 2022

Project Description: Virgin Media is a British telecommunications company which provides telephone, television and internet services in the United Kingdom.

Development Environment: Java, Spring Boot, ReactJS, Javascript, AWS Cloud, Micro Services, Restful Web services, Git, Jenkins, Log4j, Maven, Postgres, Docker, Kubernetes, Terraform, RabbitMQ and JIRA.

QA Environment: Java 11, Cucumber, Cypress, Javascript, Postman, TDD, BDD, Rest-assured, Selenium Webdriver, Jenkins, IntelliJ IDEA, GIT, Gradle and JIRA.

Responsibilities

- Designed and developed automation framework for **micro services** using **Rest-assured, Spring Boot, Gradle and cucumber-JVM**.
- Designed and developed web automation testing framework using **Selenium Webdriver with Java 8 and cucumber-JVM**.
- Designed and developed web automation testing framework using **CucumberJS, Cypress, TypeScript** and migrated all the scripts.
- Designed and developed contract testing (consumer & provider) using **PACT**.
- Responsible for setting up **Sorry Cypress** dashboards to run tests in parallel without any limitations.
- Used **Cypress Intercept** for injecting mocks to make web automation tests more stable.
- Followed Agile Scrum methodology, participated in **Grooming, Sprint Planning and Retrospective** meetings.
- Followed the continuous delivery design practice techniques such as **automated testing, continuous integration and continuous deployments**.
- Involved in writing Feature files using **Scenario, Scenario Outline, Background, Tags and Hooks**.
- Responsible for **parallelising** the regression tests to make them run quicker.
- Responsible for **manual testing** of some areas of the application.
- Used **Xray** tool to organise and manage tests, automate the process of test execution, and generate test reports.
- Responsible for **Vulnerability assessment and Security Testing**.
- Used **Tosca** to automate the process of creating various types of test accounts in the mainframes system.
- Responsible for automating the load testing of **RabbitMQ** and assessing the performance.
- Responsible for performance testing using **Jmeter** to make sure APIS are performing well.
- Responsible for generating **cucumber reports and presenting them to management and stakeholders**.
- Configured **Smoke, Regression packs for both Web and API in Jenkins** to run periodically.
- Performed UI, functional, system, regression, and exploratory testing for web interface and backend services.
- Used **Spring Boot** for Auto wiring and creating environment specific profiles.
- Have responsibility for writing **component tests, integration tests and end to end regression suites** for the application.
- Used **bug-tracking tool JIRA** to raise and track the defects.
- Followed TDD approach to create Smoke and Regression automation scripts.
- **Mentoring team members** on technical issues and ensuring we follow the best practices.
- Responsible for **reviewing the code** on a regular basis and ensuring the quality of the code delivered.

Senior Developer in Test

BAT, UK

May 2017 to Aug 2020

Project Description: British American Tobacco plc is a cigarette and tobacco manufacturing company headquartered in London. It is the second-biggest cigarette maker in the world as of 2012. BAT has a market-leading position in over 50 countries and operations in around 180 countries.

Development Environment: Java, Magento 2, Spring Boot, ReactJS, Javascript, AWS Cloud, Micro Services, Restful Web services, APIGEE, MuleSoft, Git, Jenkins, Log4j, Maven, MySQL, Docker, Amazon SQS and JIRA.

QA Environment: Java, Cypress, Cucumber, Postman, TDD, BDD, RestSharp, Jenkins, IntelliJ IDEA, GIT, Jsch, Linux, Maven, Selenium GRID and JIRA.

Responsibilities

- Designed and developed web automation testing framework using **Cypress, TestNG and cucumber-JS**.
- Designed and developed automation framework for micro services using **RestSharp, Maven and cucumber-JVM**.
- Designed and developed mock framework using **Wiremock**.
- Followed Agile Scrum methodology, participated in **Grooming, Sprint Planning and Retrospective** meetings.
- Followed the continuous delivery design practice techniques such as **automated testing, continuous integration and continuous deployments**.
- Involved in writing Feature files using **Scenario, Scenario Outline, Background, Tags and Hooks**.
- Responsible for **parallelising** the regression tests to make them run quicker.
- Have used the **Jsch library** to interact with a database that sits behind the firewall.
- Responsible for automating the events that are sent from **Web to Amazon SQS** on user actions.
- Responsible for generating **cucumber reports and presenting them to management and stakeholders**.
- Configured **Smoke, Regression packs for both Web and API in Jenkins** to run periodically.
- Automated **AWS Cloud interactions** by writing and reading the data from S3 to verify the data.
- Involved in Performance testing using Apache **Jmeter**.
- Developed the **Docker** image containers to run and build the app in the local container.
- Implemented docker containerization and created the docker images using **Dockerfile** and configured **Docker-compose.yml** to run multi-container docker applications.
- Created high level design and sequence diagrams using Lucid Charts.
- Performed UI, functional, system, regression, and exploratory testing for web interface and backend services.
- Have responsibility for writing **end to end regression suites** for the application.
- Used **Azure DevOps** for project management, version control, automated builds etc
- Followed TDD approach to create Smoke and Regression automation scripts.
- **Mentoring team members** on technical issues and ensuring we follow the best practices.

- Responsible for **reviewing the code** on a regular basis and ensuring the quality of the code delivered.

Senior Developer in Test

T-Mobile, US

Feb 2015 to April 2017

Project Description: T-Mobile US is a major wireless network operator in the United States and provides wireless voice and data services.

Development Environment: Java, Spring Boot, AWS Cloud, Micro Services, Restful Web services, Cassandra, GitHub, IntelliJ Idea, Jenkins, Log4j, Gradle, MySQL, Docker, Ready API and JIRA.

QA Environment: Java, TestNG, AspectJ, TDD, BDD, Rest-assured, Spring Boot, Protractor, CucumberJS, Jenkins, SOAP UI, IntelliJ IDEA, GIT, Linux, Gradle and JIRA.

Responsibilities

- Designed and developed web **automation framework from Scratch using Protractor, WebDriver, CucumberJS and Yarn.**
- Designed and developed automation framework for micro services using **Rest-assured, Spring boot, TestNG, Gradle and cucumber-JVM.**
- Designed and developed mock framework using **Wiremock.**
- Followed **Agile Scrum methodology**, participated in Grooming, Sprint Planning and Retrospective meetings.
- Liaising with stakeholders of the project involving Development teams, Business Analysts and Client project management teams
- Responsible for adding **Gradle compatibility** to the framework
- Used **Spring IOC** for dependency Injection.
- Used **Spring Boot** for managing environment profiles and reading property files.
- Have used **GIT** for source code version control.
- Extensively involved in Automating End-to-End Scenarios based on business Logic using **Protractor.**
- Extensively involved in running automation scripts in various browsers by configuring the **conf.js** file
- Involved in writing & organising Java Script **Page Objects** using Protractor specific locators **id, model, binding, repeater, css.**
- Extensively involved in handling **browser timeout exceptions & debugging using Protractor** in built functions. Extensively involved in Automating End-to-End Scenarios based on business Logic using **Protractor.**
- Extensively involved in running automation scripts in various browsers by configuring the **conf.js** file
- Involved in writing & organising Java Script **Page Objects** using Protractor specific locators **id, model, binding, repeater, css.**
- Extensively involved in handling **browser timeout exceptions & debugging using Protractor** in built functions.
- Involved in **merging cucumber reports for parallel test suite** runs.
- Responsible for adding **rerun features** in order to re-run failed scenarios from the Jenkins build.
- Responsible for configuring **Findbugs, PMD and Checkstyle** to make sure we deliver quality code.
- Responsible for configuring **cucumber reports plugin** and generating the cucumber reports on a daily basis.
- Have configured **Selenium Grid to run automation scripts** with multiple platforms, browsers in parallel.
- Involved in testing of **SOAP and Restful Web Services using SOAP UI**
- Involved in Performance testing using **Apache Jmeter.**
- Involved in creating test cases for multiple test modules like **Smoke test, Regression test using TestNG**
- Performed UI, functional, system, regression, and exploratory testing for web interface and backend services.
- Followed TDD approach to create Smoke and Regression automation scripts.
- Mentoring team members on technical issues and ensuring we follow the best practices.
- Responsible for producing **the cucumber reports to management and stakeholders.**
- Configured **Regression scripts in Jenkins** to run periodically based on priority

Senior Developer in Test

JD Williams, UK

June 2013 to Jan 2015

Project Description: Advisor portal has been developed for Advisors at the contact centre to take telephonic orders from customers and be able to promote the offers and recommendations.

Development Environment: Java, J2ee, Spring MVC, Spring Core, SOAP and Restful web services, SVN, Maven, Jenkins, Tomcat, LDAP, Oracle Fusion Middleware, Liferay portal, Linux, DB2

QA Environment: Java, JUNIT, TDD, BDD, Selenium Webdriver, Cucumber-JVM, Jenkins, SOAP UI, Eclipse, SVN, Windows, Linux, Maven, Selenium GRID and JIRA.

Responsibilities

- Designed and developed **Core framework using Selenium Webdriver with java, JUNIT and cucumber-JVM**
- Developed feature files using **Background, Scenario Outline and Data table**
- Involved in preparing test strategy and developed Test data and Test conditions based on User stories in JIRA
- Followed Agile Scrum methodology.
- Interacting with stakeholders of the project involving Development teams, Business Analysis teams, client Project Management teams
- Representing the QA team in weekly steering committee meetings.
- Have used **Pico containers for dependency injection (DI).**
- Involved in testing of **SOAP and Restful Web Services using SOAP UI**
- Used SoapUI **Data source, Property transfer, Groovy test** steps for storing dynamic data
- Involved in creating users, groups and testing various functionalities of advisor portals based on their roles in Liferay.
- Involved in Performing System testing, **Systems Integration Testing (SIT), User Acceptance Testing (UAT), and End to End testing**
- Tested SCA composites and OSB services as part of middleware testing.
- Involved in creating page objects using design patterns like **Page Factory, Singleton and DAO design pattern**
- Involved in creating test cases for multiple test modules like **Smoke test, Regression test using JUnit**
- Performed UI, functional, system, regression, and exploratory testing for web interface and Windows applications.
- Logged and verified fixes for bugs using the internal bug-tracking tool integrated with JIRA.

- Followed TDD approach to create Smoke and Regression automation scripts.
- Developed selenium automation regression scripts for **Offers, Size guides, Affinities, Customer details** modules.
- Developed regression scripts for **Security modules like Users, Roles, Groups and Organisations**.
- Configures the regression and some test scripts to **Jenkins for scheduling jobs**
- Configured **Selenium GRID** to run the automation scripts with multiple environments in parallel.
- Designed automation scripts based on the user stories and use cases.
- Reporting on automated test results to stakeholders and management.
- Verifying the PL/SQL procedures, triggers and validating the data using Oracle SQL Developer.
- Troubleshoot, fix and restart servers.
- Managed defects and User stories using JIRA.
- Developed Maven project and Configured Regression scripts in Jenkins to run periodically based on priority

Developer in Test

ONS (Office For National Statistics), UK

June 2012 to May 2013

Project Description: WDA has been developed to make available the results of the UK 2011 Census to the public, partners, businesses, local government and Other Government departments.

Development Environment: Core Java, J2EE, JSP, Servlet, Spring MVC 3.0, JQuery, Hibernate 3.0, Oracle, Tomcat, SVN, Maven, SOAP and REST Web Services, Liferay portal, XML, JAXB, Agile Scrum, Windows XP.

QA Environment: Java, TestNG, TDD, Selenium Webdriver, Selenium IDE Cucumber-JVM, SOAP UI, Eclipse, SVN, Windows, Linux, Maven, Selenium GRID, BURP, JMETER, JIRA, Hudson

Responsibilities

- Developed test automation scripts for creating Web data access screens using **Selenium Webdriver**.
- Tested address lookup **Web Service using Soap UI**.
- Developed regression scripts for summary using **Selenium Webdriver with TestNG**.
- Developed SOAP UI scripts for Incident management, Defect Management
- Created custom keywords for selenium framework to use create Webdriver scripts
- Developed feature files and mapped Gherkins language to map the annotations
- Used Cucumber **data tables** and examples to test with a massive set of test data.
- Implemented **TDD for creating TestNG** scripts for running Selenium Webdriver.
- Created automation test scripts for integration testing using Selenium Webdriver
- Experience with performance testing using **JMeter**.
- Created **test plans, test data** for running automation scripts.
- Created a keyword driven framework for running **Selenium Webdriver with JUnit**.
- Executed automation scripts in **staging and production** environments.
- Performed effort estimation for testing (both manual and automated).
- Created the test automation strategy, test automation standards document and guidelines
- Configuring and supporting test environments
- Liaising with developers to resolve defects.
- Managed defects using JIRA
- Download the build from **Jenkins and installing** it on different Platforms such as Windows and Linux
- Configured **Selenium GRID** to run the scripts parallel in different environment
- Execution of test cases for across **releases and Reporting** bugs
- Executed the automation scripts on nightly builds on different operating systems using Selenium GRID
- Updated and maintained **automation scripts as per UI changes, product updates, and bug fixes**.