**Govardhan Babu V**

**Cleveland, Ohio, Open to Relocation | C2C Roles Only**

**Lead QA Manual and Automation Test Engineer**

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**Professional Summary:**

* Having over 10+ years of experience in **Software development, designing,** and **Quality Testing**, and am proficient in performing **Manual** and **Automated Testing** on Web-Based and Client-Server Applications using **Java** and **Selenium**.
* Working knowledge of both **Agile and Waterfall** project environments. I have a strong background in crafting **Test Plans**, **Test Scripts**, **Test Cases**, and **Test Data**, resulting in excellent preparation experiences.
* I have proficiency across all phases of both the **Software Development Life Cycle (SDLC)** and **Software Testing Life Cycle (STLC),** encompassing Functionality, Usability, and Reliability aspects.
* Created a robust end-to-end **API automation framework** from the ground up, leveraging **Rest Assured, Java, and TestNG**.
* **Broad** experience in various fields, including banking, insurance, payments, and healthcare.
* Good understanding of **JavaScript, J2EE, HTML, XML, JSON**, and **.NET** applications, as well as fundamental Java and Python. Capable of utilizing multiple **API testing tools**, including Rest Assured, Karate, Postman, and SoapUI.
* Experienced with **Maven and Gradle**, utilizing these build automation tools to efficiently manage **dependencies**, **streamline builds**, and automate tasks in **Python and Android** projects.
* Possessing extensive experience in testing **payment merchant gateways**, including Elavon Fedwire services**, pay flow, Authorize.Net,** and **Trust Commerce.**
* Experienced in utilizing **Cypress** for comprehensive **end-to-end testing**, ensuring thorough validation of web applications.
* Skilled in crafting detailed test cases and automation scripts for **UI testing** using **Selenium and Cucumber BDD**. Proficient in **BDD with Cucumber**, including **Gherkin feature** creation and step definitions.
* proficient at utilizing **Playwright** to create end-to-end test frameworks for JavaScript.
* Experienced in API testing using **Rest Assured** and **Karate**, along with mobile testing utilizing Appium paired with Protractor.
* Proficient in establishing **Continuous Integration pipelines** with Jenkins and knowledgeable in modern QA methodologies.
* Experienced with testing tools such **as Android Studio, Appium, Selenium, UFT, HP ALM, Zephyr, Jira, Perfecto, SoapUI, Postman, and Rest Assured** for comprehensive software testing and quality assurance.
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* When writing automation scripts, I used a variety of **Selenium Locators**, such **as ID, name, Link Text, Partial Link Text, XPath, and CSS,** to identify the correct **GUI elements.**
* Utilized **Appium** for testing a variety of mobile applications, including **native, hybrid**, and **web** on both real devices and emulators. Conducted testing on both **Android and iOS** platforms.
* Skilled in **mobile testing automation,** utilizing **Appium** Desktop for Android device testing and validation.
* **Proficient in XCUITest framework for automated testing of iOS applications and Espresso for Android, ensuring comprehensive quality checks.**
* Experienced in defect management, adept at **problem-solving, bug tracking,** and reporting using **Rally, JIRA, Quality Center, and Bugzilla** for effective software quality assurance and testing processes.
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* Implemented the **Apache POI** API alongside Selenium WebDriver to seamlessly handle data interaction with **Microsoft Excel**, enabling efficient reading and writing operations.
* Designed and developed engaging, interactive web applications using **JavaScript, HTML**, and **CSS** to enhance **user experience** and functionality, focusing on intuitive design and seamless performance.
* Created scripts and automation solutions using **VBScript** to enhance workflow efficiency by automating repetitive tasks.
* Skilled in requirement analysis**, project effort estimation, resource planning, monitoring activity progress**, and conducting comprehensive application reviews to ensure quality and alignment with business objectives.
* Skilled in utilizing various **navigation commands** and effectively managing **web-based popups**, particularly alerts.
* Strong understanding of **TestNG's** Data Provider annotation to configure multiple datasets, enabling **effective Data Driven Testing** implementation within WebDriver automation frameworks.
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* Experienced with **GitLab**, **SVN Code** Commit, and **Bitbucket** version control systems, possessing practical **hands-on** expertise in managing code repositories and facilitating collaborative development workflows.
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* Experienced in **Big Data technologies** including **Hadoop, Pig, Hive, Sqoop**, and **Spark** for large-scale data processing.
* Throughout the **development** process, ensured adherence to requirements and verified compliance using **the Requirement Traceability Matrix (RTM)** to maintain **alignment** and **quality assurance**.
* Utilized **Log4j** to generate test logs across various levels, enhancing application testing and debugging capabilities effectively.
* Experienced in **DevOps methodologies**, utilizing tools such as **Docker, Kubernetes, Terraform, and CI/CD pipelines.**
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* Skilled in **AWS services** including **S3, EC2, AWS Lambda**, and **VPC** for robust cloud infrastructure management.
* Experience in testing **Microsoft Azure cloud** services, proficient in configuring network settings and managing resources within the **Azure** environment.
* Having **robust communication skills**, both orally and in writing, enabling effective collaboration with **cross-functional teams, stakeholders**, and clients to convey technical information and ensure seamless project execution.

**TECHNICAL SKILLS:**

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| Testing Tools | Selenium Web Driver/IDE/GRID, JUnit, TestNG, Cucumber, Firebug, Fire Path, SOAP UI, Postman, REST Assured, Karate, Cypress, Appium, JMeter, Playwright, XCUITest, Log4j, Browser Stack, Sauce Labs |
| Build and Integration Tools | Jenkins, Maven, Ant, Docker, Azure DevOps |
| Programming Languages | Java, Python, C#, .Net, SQL, JavaScript |
| Databases and ETL Tools | MySQL, Oracle, SQL Server, PLSQL, NoSQL, MS Access, MongoDB, Toad, Informatica, Talend |
| AWS Cloud Services | EC2, RDS, DynamoDB, CloudWatch, Device Farm, Code Build, Code Pipeline, IAM, Auto Scaling, Device Farm, LoadRunner, SDK |
| Microsoft Azure Cloud Services | Virtual Machines, DevOps, Pipelines, Repos, Artifacts, Load Test, SQL Database |
| Browsers | Internet Explorer, Mozilla Firefox, Google Chrome, Safari, Opera, Microsoft Edge |
| Version Control/IDE/OS | GitHub, Eclipse, IntelliJ, STS, Linux, Windows, Mac |

**PROFESSIONAL EXPERIENCE**

**Lead QA Manual & Automation Engineer April 2022- July 2024**

**KeyBank, Cleveland, OH**

* Conducted **system**, **integration**, and **regression** testing for the application in an **Agile development environment** including test execution, **defect tracking**, **reporting**, and **coordinating** with the test team.
* Performed **JIRA project setup** and maintenance, including importing test cases, creating test cycles, executing tests, dashboard reporting, and stakeholder management. Provided QA Level of Effort estimates and QA release schedules for the project.
* Collaborated closely with the **product team**, **designers**, **business analyst**, and **developers** to ensure alignment with application requirements and **user expectations**.
* Analyzed Business Requirement Documents (**BRD**) and Functional Specification Documents (**FSD**) to prepare test cases based on the test plan and use cases. Attended review meetings to gain better insights about the application.
* Identified and documented product and project risks, assessing their severity and impact.
* Utilized **Jira** for planning, adding **user stories**, tasks, **creating test cases**, tracking **defects**, and managing **iterations**.
* Developed and maintained robust test automation frameworks using **Robot Framework**, **Selenium**, and **Python** to automate functional, regression, and integration tests for mortgage-related web applications.
* Conducted end-to-end testing of **Talend ETL** jobs to ensure data accuracy, completeness, and reliability.
* Increased proficiency in testing tools such as **REST Assured** to meet diverse testing requirements.
* Used **JMeter** to measure the performance of client/server applications and for performing load tests.
* Implemented automation test scripts using **Karate** for **HTTPrequests** and assertions, and **BDD**/**POM** with **SeleniumWebDriver**, **Java**, and Excel for Data-Driven testing.
* Ensured a seamless user experience by conducting comprehensive **cross-browser** and **cross-device testing** of payment workflows using **Selenium** for web and **Appium** for mobile testing, leveraging platforms like **Browser Stack** and **Sauce Labs**.
* Performed detailed **end-to-end payment testing scenarios** for both web and mobile applications, ensuring a consistent user experience across various platforms and devices.
* Performed thorough mobile testing with **Appium** on **Android** and **iOS**, ensuring seamless banking experiences.
* Provided guidance and training to new QA engineers in **XCUITest** and best practices for mobile app testing for **iOS** applications.
* Proficient in creating customized hybrid frameworks (Keyword-Driven, Data-Driven, Behavior-Driven, Test-Driven) with **Selenium WebDriver**, **Java**, and **TestNG**. Used **Apache POI** for reading data from Excel sheets.
* Conducted browser compatibility testing using **Playwright**, addressing critical issues across different browsers and devices.
* Automated test cases using **SeleniumWebDriver**, **JUnit**, and **Java** and contributed to framework creation.
* Utilized **GitHub** repositories as a source control system for sharing code within the office and with overseas teams, storing both the framework and all developed test cases.
* Conducted **cross**-**browser** and **paralleltesting** using **TestNG** to verify web application functionality across environments.
* Utilized **Playwright** for automated **testscripts**, enhancing testing efficiency and minimizing human errors in responsive web apps.
* Implemented **CI** of code and scripts using **Jenkins**, **Maven**, and **TestNG**. Configured and executed builds through **Jenkins** jobs and analyzed test results via the **Jenkins UI**.
* Conducted **Database testing**, by writing SQL queries to validate **data integrity** and ensure updated data compliance with test cases across various modules of the application and utilized **JDBC** for saving and retrieving files.
* Provisioned test environments on **AWSEC2** to run tests concurrently on multiple instances or containers, optimizing test execution time and resources.
* Utilized **AWSCode Build**, **AWS Code Pipeline**, and **AWS Code Deploy** to automate the build, test, and deployment processes.
* Utilized **AWS Identity and Access Management (IAM)** to perform security and vulnerability testing of the application.
* Performed **functional testing** of **SOAP** and **REST Web Services**, validating request and response **XML** and **JSON**. Implemented assertions to verify **XML** in **SOAP** services and **JSON** in RESTFUL services.
* Utilized tools such as **SOAP UI** and **Postman** for API testing and validation.
* Executed BDD and ATDD (**Acceptance Test Driven Development**) using **Cucumber features**, scenarios, and step definitions in **Gherkin** format.
* Generated test results using outputs in Excel files, **TestNG reports**, **XSLT reports**, and **Cucumber JVM** reports.

**Environment:** Selenium WebDriver, Java, SQL, Maven, SOAP UI, Postman, Appium, Cucumber, Gherkin, TestNG, AWS, Jira, Jenkins, JMeter, REST Assured, Browser Stack, Sauce Labs, iOS, ETL, Cypress.

**Client: Blue Cross Blue Shield of Michigan:**

**Sr. QA Manual and Automation Engineer October 2019- Feb 2022**

**Responsibilities:**

* Conducted in-depth analysis of business requirements and functional specifications to develop comprehensive **test cases**, simultaneously drafting detailed **test plan** and **strategy documents**.
* Actively engaged in the creation of **test scenarios** and **test data**, aligning them with the requirements, and ensured smooth communication of updates to offshore teams during daily scrum calls.
* Participated in both manual and automated testing for functional applications, including **integration testing** and **back-end testing**, ensuring strong software quality assurance.
* Devised and implemented **Keyword-Driven** and **Data-Driven** automation frameworks customized for functional and regression testing, utilizing **Selenium WebDriver**.
* Created and executed automated test scripts using **Selenium** for **regression testing,** employing various automation frameworks to ensure thorough test coverage.
* Conducted **UItesting** to ensure optimal functionality and user experience across **web** and **mobile** applications, while utilizing **Cypress** for performance and **loadtesting** to evaluate application scalability and response time.
* Managed the development and upkeep of automation frameworks using **POM**, **TestNG**, **Eclipse**, and **Java**, supplemented by **REST** client extension for manual debugging and verification of service calls.
* Enhanced the automation suite by developing and refreshing automation test cases using **SeleniumWebDriver**, ensuring comprehensive validation of application functionality across multiple browsers.
* Utilized **SQL** queries for automating data integrity checks and validating **UI** data against real-time data, systematically compiling and tracking **testmetrics** on a weekly basis.
* Analyzed script execution reports using frameworks like **Cucumber** and **TestNG** in **Java** to identify and resolve issues in functional testing.
* Built **mobile** automation framework using **Appium**, **TestNG**, and **Java** for seamless testing on **Android**/**iOS** platforms.
* Conducted **ETL** testing to validate accurate and efficient data processing and transformation within the **datawarehouse** and associated systems.
* Designed and validated test case reports in **HPALM** for **UATtesting**, ensuring smooth execution of **regression** scripts.
* Utilized **Jira** for **planning**, **running**, and **trackingdefects**, actively participating in walkthroughs with clients and development teams, and periodically reporting defects in dedicated meetings.
* Managed test data and databases in **AWSRDS** and **AWSDynamoDB** to automate data setup and teardown processes, ensuring consistency and repeatability in test environments.
* Performed **load** or **performancetesting** using **AWSLoadRunner** and **JMeter** to simulate high traffic loads and measure application performance under various load levels.
* Conducted **cross**-**browser** and **cross**-**platform** web testing with **SeleniumWebDriver**, performing build acceptance testing and **smoketesting** using **Cucumber** automation tool.
* Conducted thorough **APItesting** using **RESTAssured**, **SoapUI**, and **Karate** to validate functionality and ensure software application integrity.
* Prepared test scripts for **UAT**, demonstrating strong proficiency in automation coding without relying on record and playback scripting.
* Created **RESTful** services collection in **Postman** and validated the responses.
* Regularly participated in daily stand-ups and project meetings to ensure alignment with project priorities and track status.

**Environment:** Selenium, SQL, Cucumber, Jira,JUnit, SOAP UI, JMeter, Postman, REST Assured, Karate, ETL testing, Appium, Cypress.

**Client: BigLots, Columbus, OH**

**Role: Senior QA Manual & Automation Engineer Mar 2018- Sep 2019**

**Responsibilities:**

* Designed and implemented a Data-Driven framework, combining **Selenium WebDriver**, **Cucumber**, **Apache POI**, and **TestNG** to automate scripts efficiently.
* Actively participated in **Agile testing** methodologies, contributing to **daily scrum** and **release planning meetings**, reviewed **product backlogs** and technical documentation.
* Proficient in creating comprehensive software test plans, leveraging **JIRA** for requirements analysis, and conducting lab dry runs to ensure accuracy.Performed functional testing of **SOAP** and **RESTFUL** web services using **SOAP UI** tool
* Utilized **Karate** for making **HTTP requests**, **validating responses**, asserting behaviors, and enhancing API testing efficiency. Leveraged **Karate's** built-in authentication support for seamless handling of authentication processes.
* Performed comprehensive testing on **Point of Sale (POS)** systems to validate seamless payment processing and Deployed **PageObject Model (POM)** framework using **Python** and **Selenium** for efficient test upkeep and scalability.
* Contributed to the creation and upkeep of automated test scripts using **Cypress** to enhance end-to-end testing capabilities.
* Automated testing using the **XCUI Test** framework enhanced efficiency and consistency for **iOS** applications. Managed both manual and automated software testing and interface checks with **Test Cafe** and **Selenium**.
* Developed a test automation framework using **Cucumber**, **POM**, and **Java** from scratch and Conducted **regression testing** with **Selenium**, adjusting scripts after each application build release for verification.
* Configured **Jenkins** jobs for **CI** and regression testing; additionally, employed **JUnit** and **TestNG** for testing frameworks and **Maven** for project compilation. Performed backend testing and wrote **SQL** queries to compare the UI results with the database.
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* Integrated **ETL** testing processes with testing frameworks like **JUnit** or **TestNG**, allowing systematic test case execution, reporting, and integration into CI pipelines and managed source code and resources using **GitHub**.
* Performed comprehensive end-to-end testing of an **Angular** application utilizing **Protractor**.
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* Performed mobile testing manually by using **Perfecto** and **Appium** for automation of Android devices using **Android Studio (emulator)** and **Xcode (simulator)**.
* Demonstrated expertise in **core java concepts** and applied them effectively in testing scenarios and generated test logs using **Log4j** and effectively managed log levels for various reporting needs.
* I used **Apache POI** to retrieve data from external sources and incorporate it into test scripts. Additionally, I developed data-driven frameworks using **Apache POI, JUnit,** and **TestNG** data providers to read data from Excel sheets.
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* Implemented parallel test execution strategies using **Cucumber**, **Browser Stack**, and **Sauce Labs** to reduce test suite execution time and improve overall test efficiency.
* Performed testing of RESTful web services across modules using **Postman** and **REST Assured**.Checked application deviation and throughput under maximum users through load testing with **JMeter**.
* Provisioned virtual machines and containers on **Azure Virtual Machines** to create on-demand test environments and perform cross-browser and cross-platform testing of web and mobile applications and **Azure SQL Database** to manage test data and databases in the cloud.
* Used **Azure DevOps** services, such as **Azure Pipelines**, **Azure Repos**, and **Azure Artifacts**, to implement CI/CD pipelines for automated testing.
* Leveraged **Azure Load Test** to simulate high traffic loads and measure application performance under stress.
* Managed **project delivery** under **stringenttimelines**, **prioritizing** work and **planning** testing activities effectivelyTop of FormBottom of Form

**Environment:** Selenium WebDriver, JUnit, Jira, TestNG, Karate, Test Café, Maven, Jenkins, Cucumber, Apache POI, Gherkin, Java, Perfecto Mobile, Appium, SQL, SOAP UI, JMeter, Postman, REST Assured, Azure, Browser Stack, Sauce Labs, Cypress.Top of FormBottom of Form

**Client: Auto-Owners Insurance, Lansing, MI**

**Role: QA Manual & Automation Engineer Dec 2015- Jan 2018**

**Responsibilities:**

* Worked as a QA Automation Engineer for a Confidential **Point of sale (POS) system.**
* Hands-on **Agile Methodology** and participated in **Sprint planning**, **Sprint Retrospective**, **Product Backlog Refinement,** and **daily Scrum meetings**.
* Executed end-to-end **POS testing,** including sale payment transactions, payment gateway validation, and web-services testing with **SOAP UI** and assertions.
* Performed **QA Automation testing, Integration**, and **Regression testing activities** for new releases in an End-to-End environment for the Point-of-Sale application, Involved in **Test Effort estimation** for upcoming and present releases.
* Conducted **functional** and **integration** testing for **POS** system components and peripherals.
* Performed user interface automation using **selenium, java, TestNG, and Maven as my building tool**.
* Performed **UI** and **API** automation using **selenium, cucumber, and rest assured**.
* Used **Selenium Web Driver** and **Cucumber** to test UI-based applications and tested the API calls by using **REST Assured.**
* Executed **BDD** with **Cucumber**, **employing Features**, **Scenarios**, and **Gherkin-formatted Step Definitions** effectively.
* Successfully designed and executed **load tests** with **JMeter** to simulate realistic user scenarios.
* Worked on the test design and automated test cases and validated the test results for the Google Wallet mobile application from the NFC-enabled phones on the **POS application**.
* Utilized data profiling tools like **Informatica Data Quality** to analyze and validate the content, structure, and quality of data throughout the **ETL lifecycle.**
* Worked with the **PostgreSQL database**, performing tasks such as querying, data manipulation, and optimization.
* Worked on the test design and test execution for the **Mobile Point of Sale application**.
* Performed mobile testing by using **Appium** to design the test scripts for both Android and IOS devices.
* Involved in **User Acceptance Testing, GUI Testing, and Regression testing** of different modules of the application.
* Worked on the optimization of the overall **regression suite** which reduced the number of test cases by 25%.
* Utilized **Azure services** such as **AZURE machine learning, azure storage**, and **azure networkingcomponents**, ensuring high availability and security within cloud environments.
* Implemented robust **CI/CD pipelines** with **Jenkins** and **GitLab CI**, optimizing software development efficiency. Streamlined end-to-end delivery processes, ensuring rapid and reliable deployment of high-quality code.
* Performed **backend testing** and wrote SQL to compare the UI results with those in the database.
* Simulated transactions, **verified POS**, **payment processing**, **cash management**, and reporting features thoroughly.
* Performed **positive and negative testing** according to the test scenarios.
* Prepared Daily Defect reports (**from Bugzilla**) and Test status reports (**from Quality Center**) for stakeholders.
* Performed the automation of test scenarios for functionality, **GUI,** and Regression testing using **QTP**.
* Execution of the test scenarios and scripts and review of **product functionality**.
* Responsible for **UAT** to store operations and business users.
* Extensively worked with **Quality Center** for test case execution and reporting purposes.

**Environment:**Selenium IDE, SQL, User Acceptance Test Cases, Cucumber Automation Tool, Page Object Model, HP ALM, UAT, Jira, Agile Testing Methodology, Azure services, Unix, MS SQL Server, MS Excel, Quality Center, Junit, Windows XP, HTML, SoapUI, XML, Java Script, Unix, Windows.

**QA Automation Engineer**

**Atos India Private Limited, Bengaluru June 2013- July 2015**

**Responsibilities:**

* Involved in all phases of **SDLC and STLC** andWorked in**waterfall** methodology. Involved in writing and designing templates for the **Test Plans and Test cases.**
* Involved in **Test planning** and test **execution** and performed **Functionality Testing,Smoke Testing,** and **Regression Testing** and participated in peer review with team and developers to review test cases/test scripts.
* Used Quality Center for **test planning**, **defect reporting**, **tracking**, and understanding **defect life cycle**. Performed manual and automation testing using **Rest Assured** and **Postman.** Involved in the Preparation of **Test Scenarios** and review of **Test Cases.** Skilled in **Karate** for **API testing**, **automation**, and **Behavior-driven development** in software testing.
* Updating the test cases based on the change **requests/enhancements.**
* Performed **Functional, Negative, Positive, Regression, and User Acceptance Testing.**
* Performed **manual testing** to check the functionality and executed the test cases in the quality center**.**
* Performed API automation using **Rest Assured** and Karate and performed UI automation using **selenium** and **cucumber.**
* analyzing **JMeter** test results, identifying performance metrics, and generating comprehensive reports to communicate findings and recommendations to stakeholders.
* Created Java-based scripts for **Selenium WebDriver** with **TestNG** as an automation framework using **Firebug** and **Fire path** for object identification and debugging the automation script failure in **Selenium WebDriver.**
* Utilized tools such as **SoapUI** and **Postman**, for manual **API testing** and validation.
* Implemented **SVN** for version control. Deployed scalable, secure AWS infrastructure with **EC2, S3, RDS**, and **IAM**, optimizing project performance and ensuring cloud security.
* Wrote **SQL Queries** to retrieve data for a specified set of test requirements.
* Involved in writing the **Test Cases** and authoring the Automation scripts worked with Hybrid Framework which is a combination of **Data Driven Framework and POM (Page Object Model).**
* Executed **BDD** with **Cucumber**, utilizing Features, Scenarios, and Step Definitions in **Gherkin**.
* Utilized **SOAPUI** to test web services, wrote **RESTful** assertions for **JSON** messages.
* Hands-on experience in using **GitHub** as a central repository to perform Push, Pull, Stage, Onstage, Stash, Status, Add, Clone, and remove operations in the local repository **GIT.**
* Collaborated on defect resolution using **JIRA**, implemented **Log4j** for effective build logging.

**Environment**: Selenium, Postman, Rally, Selenium web driver rest assured, TestNG, Firebug, JMeter, Fire Path, Soup UI, AWS, EC2,

SVN, Cucumber, JSON, Jenkins, Jira, karate, GitHub, Git, Log4j.