PHANINDRA RAVELLA

PR

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SUMMARY

- Software Development Engineer in Test having 8+ years of IT expertise. Extensive experience with software analysis, design, development, implementation, and testing of mobile, web, and client-server architecture applications in industries such as health care, banking, and insurance.
- Good experience in working on modern full-stack **Angular** and **Node JS** environments.
- Developed end-to-end automated test suites for UI and API using **Playwright** to ensure the quality and functionality of web applications.
- Prior experience working with **Cypress-io** for E2E UI **Integration** testing.
- Proven experience creating hybrid, data-driven using **Java** and **Selenium Web Driver**, **TestNG**, **BDD Cucumber**, Extent Reports, and **Cucumber** Reports.
- Proficiency with Java's **Stream API** allows performing functional-style operations on collections, allowing for simple and expressive code.
- Experience building unit tests with testing frameworks such as **JUnit** or **TestNG**, as well as implementing TDD principles to ensure code accuracy and maintainability.
- Developed and Executed API test cases for **SOAP** and RESTful web services using SoapUI/Ready API, Swagger and **Postman**.
- ETL frameworks and design patterns such as ETL pipelines, star schemas, and slowly changing dimensions (SCD) were used to create effective ETL procedures.
- Experience with API automation tools such as **Frisby**, **Chakram**, and **Rest Assured**.
- Proficient in Karate for API testing and end-to-end testing, leveraging its unique capabilities for both API and UI automation.
- Extensive knowledge in mobile automation testing with **Appium** and Java for **Android** and **iOS**.
- Used **CD/CI** (Continuous Delivery/Continuous Integration) tools like **Docker** and **Jenkins** and deployed the application to **AWS**, and **GIT** was utilized for code version control for incremental development and day-to-day code maintenance.
- Experience in using Data analytics tools like Amazon Redshift, Amazon **QuickSight** with data integration tools like **AWS Glue**.
- Experience with **SonarQube**, and **TSLint** for code coverage and build pre-filtering at **Jenkins** Pipeline.
- Excellent knowledge Build management technologies for developing, packaging, and deploying software projects include **ANT**, **Maven**, **Gradle**, and **Grunt**.
- Working expertise in relational database management systems such as **MS Access**, **My SQL**, **SQL Server**, and Oracle.
- I conducted comprehensive application testing across various browsers, including IE, **Firefox**, **Android**, **Safari**, and **Chrome**.
- I have gained valuable experience in utilizing **Slack**, Confluence, **Pager Duty**, and JIRA integrations to enhance reporting efficiency, receive timely test failure alerts, and facilitate tracking.

SKILLS

- **UI & Functional Automation Tools/ Frameworks:**
- Selenium WebDriver, Playwright, Cypress, Appium, Frisby, Chakram, Rest-Assured, Rest-sharp, Spec Flow, NUNIT, Mocha, Jasmine, Jest, Chai, BDD Cucumber, JUnit, TestNG, Browser stack, Karma, Karate, Load Runner, JMeter, SoapUI, Postman,

- **Test Case Management Tools:** ALM QC, JIRA Zephyr, TestRail, FitNesse, XRAY
- **MQ Software:** IBM MQ, RabbitMQ
- **Bug Tracking Tools:** Bugzilla, JIRA, Aws DevOps Server, backlog
- **Project Management Tool:** JIRA, Aws DevOps,

Newman, Playwright, React.js.

- **Programming/Scripting Languages:** Java, Node JS, Angular, C#, .Net, groovy, JavaScript, Typescript
- **Web Technologies:**
- HTML, CSS, JavaScript, AngularJS, NodeJS, XML, XSLT, JDBC REST services
- **Reporting and other Frameworks:** Extent Reports, Jasmine Reports, Java Mail, Gmail API, Apache POI, itextPdf, Sikuli, AutoIt.
- **Build Tools:** Ant, Maven, Gradle, Grunt.

Confluence

- **DevOps & CICD:** SVN, Git, Stash, Jenkins, TeamCity, Docker, AWS Cloud, SauceLab, Perfecto Cloud.
- **Databases:** MS Access, MySQL, SQL Server, Oracle, cascade and MongoDB.

EXPERIENCE

Software Development Engineer / CarMax - Richmond, VA   *01/2022 - Current*

- Implemented end-to-end test scenarios using Playwright, simulating user journeys that encompass multiple pages, interactions, and data flows for comprehensive coverage.
- Utilizing playwright's APIRequest Context methods, creating end-to-end scenarios that involve both backend and frontend interactions.
- Playwright tests were integrated into an AWS CI/CD pipeline where automation was set up to conduct Playwright tests as part of our deployment process.
- Integrated Playwright with Jest for mocking, assertion and code coverage analysis, organized test suites and generated test reports.
- Expert in utilizing Appium and Browserstack to automate mobile applications on iOS and Android platforms using a single codebase.
- Proficient in implementing data-driven testing using Appium, enabling test scripts to execute against different sets of data for comprehensive testing coverage.
- Working in an Agile Scrum environment and participating in scrum and sprint meetings
- Experience in using Aws DevOps to manage a project's testing lifecycle.
- Developed test automation framework using Selenium WebDriver with Java and Maven, built hybrid framework using BDD cucumber, POM and TestNG.
- BDD-Cucumber was used in conjunction with Selenium WebDriver to evaluate cross-browser compatibility.
- Performed cross-browser testing using Selenium Grid.
- Implemented Selenium Web-driver to run Regression Tests on multiple platforms and browsers in parallel.
- Performing Web Services testing and JSON validation by creating a test case suite using Postman.
- Proficiently validated API responses using Rest Assured, including assertion checks for JSON or XML payloads, response headers, and status codes.
- Leveraged parallel test execution capabilities of Rest Assured to optimize testing time and enhance test suite efficiency.
- Extensive experience in implementing Continuous Integration and Continuous Delivery (CI/CD) pipelines on cloud platforms such as AWS.
- Integrated AWS S3 with test automation frameworks to enable seamless data exchange and retrieval during test execution.
- Designed AWS Cloud Formation templates to create custom sized VPC, subnets, NAT to ensure successful deployment of Web applications and database templates.
- Amazon IAM service enabled to grant permissions and resources to users. Managed roles and permissions of users with the help of AWS IAM.
- Initiated alarms in CloudWatch service for monitoring the server's performance, CPU Utilization, disk usage to take recommended actions for better performance.
- Creating and executing detailed test cases with step-by-step procedures and expected results and maintaining the test logs, test reports, test issues, and defect tracking using JIRA.

Software Development Engineer / ABIM - Walnut, PA   *07/2020 - 12/2021*

- Expertly managed the product backlog by collaborating with product owners and stakeholders.

- Prioritized user stories, defined acceptance criteria, and ensured backlog items were well-prepared for sprint planning.
- Collaborated closely with cross-functional teams, including developers, QA engineers, designers, and product owners.
- Embarking on an exhilarating journey of test framework development and configuration, harnessing the powers of Cypress and Mocha within the captivating realm of the Node.js platform
- Engaged in test execution, analysis, reporting, and smoke testing.
- Experience in setting up and configuring Cypress for various web applications, ensuring seamless test execution across Edge, Electron and Webkit.
- Tested web applications comprehensively, covering UI interactions, form submissions, navigation, and user flows with Cypress.
- Integrated Cypress tests with backend services and APIs by sending requests, verifying responses, and ensuring that the application correctly interacts with backend services and validate data interactions.
- Utilized Cypress for security testing, including testing for common vulnerabilities like Cross-Site Scripting (XSS) and Cross-Site Request Forgery (CSRF).
- Leveraged memorization and context provider optimizations to enhance the performance of React Context API-based state management solutions for large-scale applications.
- Proficient in using Postman collections, environments, and variables to manage test scenarios efficiently.
- Appium expert at managing app states and contexts, including backgrounding apps, relaunching apps, and moving between different apps contexts.
- Using Appium's hybrid app support, demonstrated ability to automate testing of hybrid mobile apps that combine native and web components.
- Integrated Appium test scripts into CI/CD pipelines Jenkins for continuous testing and deployment validation.
- Developed and executed performance test scripts using JMeter to evaluate the performance, scalability, and reliability of APIs.
- Generated comprehensive test reports and actionable insights using JMeter's built-in reporting tools and third-party plugins.
- Successfully implemented OAuth-based authorization testing, validating access control and user permissions across different roles and scopes.
- Performed Postman to perform comprehensive testing of APIs, ensuring functionality, reliability, and adherence to specifications.
- Utilized Azure Repo and Azure Test Plan for source code management and test management.
- Configured Azure infrastructures and administered, with users, permissions, security groups, and access restrictions managed.
- Designed and orchestrated automated build and release pipelines using Azure Pipelines.
- Defined build triggers, artifact management, testing, and deployment stages for continuous integration and continuous delivery (CI/CD).
- Implemented Azure Storage, Azure SQL, Azure Services and developed Azure Web roles.
- Experience in migrating on premises to Windows Azure using Azure Site Recovery and Azure backups.
- Deployed Azure packages using project deployment model and package deployment model.
- Leveraged Azure Boards to Plan, track and discuss work following agile methodologies.

Software Development Engineer / ADP - Hyderabad, Telangana   *06/2017 - 05/2020*

- Demonstrated agility in responding to changing requirements or priorities during sprints.
- Skillfully adjusted sprint backlogs, scope, and priorities to accommodate evolving business needs.
- Designed and implemented automated tests for UI and functional testing of Salesforce mobile applications utilizing tools such as Selenium, Appium, or Salesforce-specific tools.
- Involved in WEBAPI services development using ASP.NET.
- I developed reusable service components using Angular 8 services, Object-Oriented JavaScript, HTML, and CSS3, in alignment with the visual designs.
- Carried out testing on real iOS and Android devices, covering a wide range of device models, operating system versions, and form factors.
- Utilized Karate's natural language syntax to create expressive and readable test scenarios.
- Set up and maintained high availability solutions such as Oracle Real Application Clusters (RAC) or Data Guard

- Data modeling tools such as Oracle SQL Developer Data Modeler or ERwin were used, as was your skill to develop efficient database designs.
- Optimized Oracle databases for performance, including query optimization, index tuning, and database parameter tuning.
- Performed the security testing of APIs within SOAP UI, including authentication, authorization, and data encryption.
- Conducted load and performance testing using SOAP UI to assess API scalability and reliability under heavy loads.
- Performed Unit Testing of the application by using NUnit.
- Extensive expertise in writing clean, efficient, and maintainable Java code.
- Experience managing and collaborating on Java projects using version control systems (e.g., Git), including branching, merging, and resolving conflicts.
- I extensively automated regression and functional test suites using Selenium WebDriver, NUNIT, and SpecFlow with C#.
- Optimized C# code for better performance, including memory management and resource utilization.
- I created automation scripts in Microsoft Visual Studio, leveraging the NUnit framework.
- Worked with AWS cloud machine to set up selenium GRID and Jenkins server on HUB machine.
- Developed Automation scripts in Microsoft Visual Studio and used the NUnit framework.
- Configured NUnit, and Selenium web driver from NuGet packages as build for adding all the dependencies.
- Worked on NUNIT Annotations, XPath expressions and CSS Identified several web elements using different locators such as ID, XPATH, CSS etc.
- Involved in Jenkins, and Maven configuration for running servers and scripts after the build.
- Used Bitbucket for Version Control and Code Collaboration to manage code reviews.
- Created the Jenkins pipeline jobs for regression and smoke suites using Docker, Git, and Jenkins.
- Configured SonarQube, TSLint and Json Reports for Unit and Component tests.
- Added BDD Cucumber Framework for component tests.
- Implemented data-driven testing in Cucumber, allowing tests to run with multiple input data sets.
- Cucumber has been used for performance testing scenarios with technologies such as JMeter and Gatling.
- Used AWS to deploy the project on an EC2 instance.

Software Development Engineer / Infosys Technologies - Hyderabad, Telangana   *02/2015 - 05/2017*

- Extensively automated regression and functional test suites using Selenium web driver, NUNIT, and Spec flow with C#.
- Worked with AWS cloud machine to set up selenium GRID and Jenkins server on HUB machine.
- Integrated TypeScript with development tools like Webpack, Babel, or ESLint for a seamless development experience.
- Customized the TypeScript compiler (tsconfig.json) to fine-tune compilation options, enable strict mode, and optimize type checking.
- Used browser stack to execute the test scripts periodically and parallelly for different browsers and platforms.
- Performed Unit and Integration testing using MS Test.
- Optimized Oracle databases for performance, including query optimization, index tuning, and database parameter tuning.
- Wrote Test Automation Script using Java, Selenium WebDriver which performed sanity testing on every deployment performed in QA Environment.
- Created an End-to-End Framework for Acceptance Testing using Cucumber, WebDriver, Java and TestNG.
- Designed and developed Stored Procedures, tables and views, Used PO Server as database.
- Implemented test automation scripts for mobile testing using Appium for Android and iOS applications.
- Implemented simulator for mobile App Testing in Android Platform using Appium.
- Executed the Test Plans on web and Mobile as per requirements using Appium tool.
- Using Rest assured Conducted comprehensive validation of API endpoints, including endpoint functionality, request/response payloads, and status codes.
- Developed and maintained automated API test suites using Rest Assured within TestNG.

- Successfully implemented authentication mechanisms, including OAuth2, Basic Authentication, and API tokens, to ensure secure API testing using rest assured.
- Performed the Load and performance testing using JMeter.
- Worked on API and Web Service Testing using Postman for REST Protocols
- Build and automate the deployment of all the front-end components using Jenkins, cutting deployment time and the number of developers needed.
- Maintained the version controls in Bitbucket using GitHub.
- Documented defects, errors, and inconsistencies in the application using JIRA and ALM
- Prepared test cases for Navigational testing, Functionality testing and User interface testing
- Integrated unit, component, regression, and smoke suites to each build using Docker, Git, and Jenkins
- Involved in designing a framework for Unit tests using Karma and Mockery
- Integrated JIRA Zephyr test cases and Jenkins reports after the execution
- Involved in RCA meetings, Product enhancement meetings with the Product Owner and BA
- Helped in Configuring the Services, Commission, and fee configurations for customers.
- Guided the other QA in setting up the frameworks and Integrations.
- Interacted with various teams globally in Romania and Seattle regarding the game and its features.
- Executed various tests like functionality, audio, GUI and MTX and test runs in the TestRail.
- Participated in daily stand-up calls with other teams through video calls.
- Managed a team of 12 members and assigned tasks daily.
- Generated Power BI report daily to showcase the work done by the team along with the bugs reported.

EDUCATION AND TRAINING

Bachelor of Science: Electrical, Electronics and Communications Engineering

Jawaharlal Nehru Technological University - HYDERABAD

CERTIFICATIONS

- [AWS Certified Solution Architect]- [2020]