**Ravi Kumar**

**Automation Test Lead**



**Objective:-**

To contribute to an organization where I can leverage and enhance my knowledge and skills for mutual growth. A detail-oriented Quality Specialist professional with extensive experience in Agile environments, specializing in improving product quality through strategic test planning, execution, and cross-functional collaboration. Dedicated to using my expertise to drive continuous improvement and achieve organizational excellence.

**Profile Summary:-**

* 10+ years of diverse experience in the field of IT as a Software QA Specialist in testing applications developed in various technologies.
* Strong experience in **Agile Framework, Software Development Life cycle (SDLC) methodologies like Waterfall, Agile Hybrid models, Scrum, Lean, Kanban and Devops.**
* Proficient in using **JavaScript** to write and maintain automated test scripts for **web applications, enhancing test coverage and efficiency.**
* Thorough understanding of various phases such as **Requirements gathering, Analysis/Design, Development, Testing and Releasing.**
* Proficient in using **Java** for developing and maintaining **automated test scripts, including unit, integration, and end-to-end testing**
* Extensive experience in automating web application tests using **Selenium WebDriver** with **JavaScript**.
* Experience in testing various **IoT** devices, including **sensors, smart appliances, and wearables.**
* Experienced in Go-to-market strategies while delivering high volume customer centric products in **IoT, Manufacturing, E-Commerce and consumer appliances domain.**
* Experienced in a broad range of technologies including business process tools such as **Google Suite, Jira, Confluence, UiPath, JQL, Selenium, Appium, HeadSpin, Service now, MS Office Suite, Smartsheet and AES (Alexa enterprise services).**
* Extensive experience on the tools like MS PowerPoint, MS Word, MS Excel, and SharePoint, Smartsheets.
* Expertise in testing **Mobile Application**s on **iOS and Android platforms**, including functional, usability, and compatibility testing
* Experience with **JavaScript**-based test automation frameworks such as **Cypress, Protractor, and Jasmine for end-to-end testing.**
* Extensive experience in automating web applications using **Selenium WebDriver** with **Java**, covering various browsers and platforms.
* Skilled in using **Java**-based testing frameworks like **TestNG and JUnit** for creating and executing automated test cases.
* Conducted performance testing on **iOS and Android** apps to assess responsiveness, load times, and resource utilization under various conditions.
* Integrated **Java**-based automated tests into **CI/CD** pipelines using **Jenkins**, ensuring continuous testing and fast feedback loops.
* Proficient in testing **IoT** communication protocols such as MQTT, Amqp, and Bluetooth.
* Exceptional ability to proactively communicate and collaborate with customers, assess impact of change and analyze business information needs.
* Proficient in automating **API** tests using tools like Postman, RestAssured, SoapUI, and JUnit.
* Skilled in performing end-to-end testing of **IoT** solutions, from device integration to cloud connectivity and **Mobile Application**s.
* Proficient in automating **Mobile** tests using tools like **Appium, Espresso, XCUITest, and** **Selenium**.
* Practiced Service Oriented Architecture Testing methods for transforming integrated business applications.
* Excellent communication, good interpersonal, analytical and leadership skills.
* Conducted performance testing to ensure scalability and reliability of **IoT** systems under various loads and network conditions.
* Integrated **API** testing into continuous integration/continuous deployment (CI/CD) pipelines using tools like **Jenkins** and GitLab CI.
* Conducted security testing on **Mobile** apps, identifying vulnerabilities such as insecure data storage, improper session management, and unauthorized access.
* Expertise in conducting cross-platform testing to ensure consistent functionality and user experience between **iOS** and **Android** applications
* Expertise in testing and validating the migration of applications and data from **IBM** systems to **AWS**, ensuring minimal downtime and data loss.
* Strong background in planning, managing and monitoring, executing project requirements and transforming business methods for optimum delivery.
* Working in **AWS** Cloud using Services such as Cloud watch and **DynamoDB**.
* Proficient in Smoke testing, **API** testing using Postman, Runscope and SOAP UI, Sanity testing, Compatibility testing, Regression testing, Retesting, Cross browser testing, Functionality testing and Cloud Testing.
* Experience in Voice integration with Alexa-Google Testing and **Mobile Application** testing.
* Experience in Application testing for **Scan to cook**, **Scan to connect**, **BLE** technology for smart appliances in **IoT** Domain.
* Experience in the CXC (Consumer Experience Team) to deal with consumer incident management.
* Leadership in PI Planning & Scrum Practices: Led PI Planning, Sprint Planning, Defect triage and Daily stand-ups to ensure alignment and resolve cross-functional issues.
* Worked on **Oauth 2.0** for App-to-App linking in Amazon.
* Conducted comprehensive testing for Smart Appliance onboarding, including connecting to the router, verifying connectivity, and managing appliance provisioning, claiming, unclaiming, and de-provisioning processes.
* Worked on **Amazon's Dash Replenishment** Service (DRS), Alexa Announcement, Google Voice Notification for Various Smart Appliances.
* Worked on Test Suites on Run scope for **API** Automation, Browser Stack, Headspin.
* Defect Triage & Mentorship: Participated in defect triage meetings and mentored teammates with technical guidance.
* Worked with Alexa and Google on WWA and Google Certifications for the Smart Devices.
* ISTQB Foundation level certified by Global Association for Software Quality.

**Technical Skills:-**

* **Tools**:- **IBM** RTC, JIRA, HP-QC, RTC, Postman, Wcloud services, **DynamoDB**, **Selenium**, Runscope, Google Home Playground, BrowserStack, Headspin, **UiPath**, AES, Alexa & Google Console. WIDEBOX Interface, Wi-Fi Commander Kibana, OpenSearch, **AWS** CloudWatch, Lambda, DB Visualizer, AES.
* **Testing:-** SDLC, STLC, Defect tracking, Functional Testing, Automation Testing, Manual Testing, Integration Testing, Exploratory Testing, Smoke Testing, Compatibility Testing, Test Cases, Test Plan, Test Case Execution Report, Release Notes, **API** Testing, UI Testing, Localization Testing, Regression Testing, Sanity Testing, Compliance Testing, Database Testing, Voice Interaction Alexa-Google Testing, **IoT** Testing.
* **Mobile Application** testing (**Android** and **iOS**)
* **API** Testing (Postman and Run Scope)
* Smart Appliance Testing
* Basic SQL (DB Visualizer), MS SQL.
* Utility:- MS WORD, MS EXCEL
* OS:- Windows and MAC.

**Professional Experience**

**Whirlpool Corporation, GHQ Benton Harbor, MI December 2018 – Present**

**Atos Syntel**

**Automation Test Lead**

**Domain:- IoT**

**Project Description:- Ecosystem Voice Integration**  
The project involved developing and testing a cloud-based voice control service integrating Amazon Alexa and Google Assistant. This service allows users to operate various smart appliances such as ovens, refrigerators, washing machines, dishwashers, and microwaves using **Mobile Application**s and Voice commands through Smart devices..

**Integration Testing:-**

* + Validate the seamless integration between the voice control service and the **IoT** platform.
  + Ensure accurate and reliable command execution for connected appliances through the cloud infrastructure.

**System Integration Testing (SIT):-**

* + Conduct comprehensive testing to confirm the interoperability between Voice services (Amazon Alexa and Google Assistant) and various Smart appliances.

- Verify that commands issued through the Voice services are correctly processed and that appliances respond as intended.

**Cloud and Mobile Application Integration:-**

* + Assess the integration of cloud services with **Mobile Application**s used for managing and controlling smart appliances.
  + Ensure synchronization between the cloud platform and **Mobile Application**s, validating that functionalities are transmitted effectively and executed as expected.

**Roles and Responsibilities:-**

* Working as a Test Lead in a team of 16 people.
* To Prepare Test cases for testing and prepare test Suite according to feature list as per SRS.
* To execute test cases, defects logging and tracking in JIRA.
* Developed and executed test cases for **IoT** communication protocols (e.g., MQTT, Amqp), ensuring robust and secure data exchange
* Generate test reports for execution and sharing with Global stake-holders.
* Testing the connectivity of **IoT** Device (appliances) through **API**.
* Perform **Mobile Application** testing for Smart Appliances.
* Perform Voice testing with **API**, Amazon & Google devices, Alexa Announcement, Google Voice Notification.
* Developed and executed automated test scripts using **JavaScript** with **Selenium WebDriver**, covering functional and regression testing for web applications.
* Conducted functional and regression testing on **Mobile Application**s for **iOS and Android platforms**, identifying and reporting critical issues.
* Designed and implemented comprehensive test cases for **API** functional testing, ensuring all endpoints were thoroughly validated.
* Integrated **Java**-based test automation into **Jenkins** **CI/CD** pipelines, enabling continuous testing and reducing deployment times.
* Developed and maintained automated test scripts in **Java** using **Selenium WebDriver**, significantly increasing test coverage and reducing manual testing effort.
* Collaborated with cross-functional teams to validate the integration of **IoT** devices with cloud platforms and **Mobile Application**s.
* Automated **API** testing using RestAssured with **Java**, validating RESTful web services for functionality, performance, and security.
* Conducted device compatibility testing across multiple **iOS** and **Android** devices, ensuring consistent performance and functionality.
* Perform Integration testing (**AWS**-Cloud) and **Mobile Application** (**iOS** & **Android**) testing.
* Perform integration, functional, and regression testing in **Java** using the **Selenium**/WebDriver framework and **Mobile Application** framework using Appium.
* Technologies: **API** Communication, MQTT, AMQP, Alexa & Google Console.
* Responsible for E2E delivery for the project.
* Developed custom **UiPath** workflows to automate repetitive QA tasks, such as data setup and validation, enhancing efficiency and consistency.
* Run the daily Stand-up, Sprint Planning, Product backlog refinement, Sprint review/ demos and sprint retrospective.
* Collaborated with developers to review **API** documentation, providing feedback to ensure all edge cases and error scenar**iOS** were covered.
* Performed security testing on **AWS**-hosted applications, focusing on IAM roles, security groups, and VPC configurations to identify and mitigate vulnerabilities.
* Prepare reports or correspondence concerning project specifications, activities, or status.
* Providing Demos to clients and other respective teams.
* Validated **Mobile** app security by testing for common vulnerabilities, including insecure data storage and improper session management, across both platforms.
* Collaborated with Google and Amazon teams on product certification, participating in technical calls and successfully obtaining certifications for voice-integrated smart appliances.

**Tools:-** **IBM** RTC, JIRA, HP-QC, RTC, Postman, Wcloud services, **DynamoDB**, **Selenium**, Run scope, Google Home Playground, Browser Stack, Headspin, **UiPath**, AES, Alexa & Google Console. WIDEBOX Interface, Wi-Fi Commander Kibana, OpenSearch, **AWS** CloudWatch, Lambda, DB Visualizer, AES.

**Project Description:- TS 2.0 Appliances**

It is TS2.0 smart devices for Whirlpool, Maytag, KitchenAid, Jenn Air, Bauknecht brand of NAR and EMEA region based on the Tech Stack technology. To perform System integration testing for Connected Appliances and to test integration with the **IoT** platform which includes **AWS** Cloud and **Mobile Application**.

**Roles and Responsibilities:-**

* Working as a Test Lead.
* Target is to perform Voice testing with **API**, Amazon & Google devices.
* Perform **Mobile Application** (**iOS** & **Android**) testing.
* Run the daily Stand-up, Sprint Planning, Product backlog refinement, Sprint review/ demos and sprint retrospective.
* Integrated **API** testing into the **CI/CD** pipeline, enabling automated testing on every build and deployment, significantly reducing deployment time.
* Automated deployment and testing processes using **AWS** Code Pipeline, integrating automated test scripts into the **CI/CD** pipeline.
* Conducted manual testing supported by **JavaScript** tools, using browser developer tools to debug and test web applications across different environments.
* Created and executed unit and integration tests using **Java**-based frameworks like TestNG and JUnit, ensuring the stability and reliability of the application.
* Lead the Scrum Meetings on a weekly basis to discuss cross functional issues.
* Facilitate defect triage meeting with the scrum team to diagnose defects on a regular basis.
* Integrated **UiPath** automation workflows into the existing **CI/CD** pipeline, ensuring continuous testing and r**api**d deployment.
* Performed load and performance testing on **DynamoDB** tables, assessing their ability to handle high traffic and large data volumes without performance degradation.
* To execute test cases, defects logging and tracking in JIRA.
* Prepare reports or correspondence concerning project specifications, activities, or status.
* Providing Demos to clients and other respective teams.
* Collaborated with Google and Amazon teams on product certification, participating in technical calls and successfully obtaining certifications for voice-integrated smart appliances.

**Project Description:- AWS Orion**

**AWS** Orion- Migrating all services of Wcloud from **IBM** to **AWS** platform to increase security, performance and stability of **IoT** Platform.

**Roles and Responsibilities:-**

* Working as a Test Lead in a team of 20 people.
* Understanding user stories as per the business requirement.
* To test the events getting logged in Elastic search.
* tested and validated the migration of applications and data from **IBM** systems to **AWS**, ensuring minimal downtime and data loss
* Tested and validated applications hosted on **AWS**, ensuring they met performance, scalability, and security requirements.
* Utilized **AWS** Lambda for running automated tests in a serverless environment, optimizing cost and efficiency.
* Conducted thorough testing of **UiPath** to ensure accuracy and reliability before deployment, catching and fixing issues early in the development cycle.
* Collaborated with developers to troubleshoot and resolve issues related to **DynamoDB** performance and data consistency.
* To perform **API** testing, **Mobile Application** (AOS and **iOS**) testing and Defect Retesting.
* Providing Demos to clients and other respective teams after each sprint.
* Execute test cases, defects logging and tracking in JIRA.

**Project Description:- OTA (Over-The-Air)**

Validated the Appliance and **Mobile** App supporting the appliances as the Firmware of the Smart Appliances is updated Over-the-Air.

**Roles and Responsibilities:-**

* Understanding user stories as per the business requirement.
* To test the Smart devices firmware version upgrade.
* Conducted **API** load testing using tools like JMeter, ensuring the **API** could handle high traffic volumes without degradation.
* Optimized **DynamoDB** queries and indexes, improving data retrieval times and reducing query costs.
* Integrated **JavaScript**-based automated tests into **Jenkins** **CI/CD** pipelines, reducing build and deployment times and improving test reliability.
* To perform **Mobile Application** (AOS and **iOS**) testing for OTA functionality.

**SA Technologies, Pune, India April 2017 – December 2018**

**Software Test Engineer**

**Domain:- IoT**

**Project Description:-**

**Radiant-Connectivity Appliance (NAR-Region)**

- To perform System integration testing for Connected Appliances.  
- The core objective for this project was to test integration with the **IoT** platform which includes Cloud and **Mobile Application**.  
- Target is to perform Integration testing, Appliance testing, End2End testing with **Mobile Application**s (**iOS** & **Android**).  
- **Mobile Application** enables Users with features to operate, control appliances and get notification for events.  
**Roles and Responsibilities:-**

* Working as a Software Test Engineer in a team of 20 people.
* Perform Integration, Regression, Functional, **Mobile** App (**iOS** and **Android**) Testing.
* To write Test cases for manual testing and prepare test Suite according to the feature list as per SRS.
* To execute test cases, defects logging and tracking in **IBM**-RTC and HPQC.
* Perform Integration testing, Appliance testing, End2End testing with **Mobile Application**s (**iOS** & **Android**), MS SQL, **API** validation using “Postman”.
* Implemented the Page Object Model (POM) in **Java** to build a scalable and maintainable test automation framework, reducing the time needed to update test scripts.
* Integrated **Java**-based automated tests into **CI/CD** pipelines using **Jenkins**, ensuring continuous testing and fast feedback loops.
* Conducted extensive testing of **DynamoDB** tables, ensuring data consistency, integrity, and performance in a high-transaction environment.
* Conducted performance testing to optimize app performance, including startup times, battery consumption, and memory usage on both **iOS** and **Android** devices.
* Generate test reports for execution and sharing with Global stake-holders.
* Trained new members in the team on the project.
* Developed and executed automated test scripts using **AWS** SDK to validate **DynamoDB** operations, including data retrieval, insertion, and updating processes.
* Integrated **API** testing into the **CI/CD** pipeline, enabling automated testing on every build and deployment, significantly reducing deployment time.
* Perform Automation testing by using **Selenium** with **Java**, **Mobile Application** framework using Appium.
* Handling daily calls with Stakeholders for updating daily status and project updates.  
  Achievement:
* “STAR Award” winner in the Month of September from Whirlpool Asia LLP(GTEC).

**HN Web Marketing Pvt. Ltd. Pune, India November 2015 – April 2017**

**Test Engineer**

**Domain:- Mobile Apps and E-Commerce website**

**Project Description:-**

Digital Marketing Experience Services is a project aimed at delivering seamless ability to the customers to shop for policies, pay their bills and manage preferences. These abilities are provided to the customers across different platforms like web, **iOS** and **Android**. This complex project involves constant collaboration with the back-end policy and billing teams along with **API** integrations.

**Roles and Responsibilities:-**

* Worked as a Test Engineer. Analyzing client requirements, evaluating projects for fl**AWS** and issues.
* Identify bugs and execute test cases as per requirement.
* Performed manual and automated testing of **Mobile Application**s on **iOS** and **Android** platforms, identifying and resolving platform-specific issues.
* Led the **API** testing efforts for a large e-commerce platform, validating all backend services that supported web and **Mobile Application**s.
* Utilized TestNG and **Jenkins** to run automated test suites continuously, ensuring r**API**d detection of defects in the development cycle.
* Carried out the Integration testing, System testing, Regression testing.
* Automated the testing of over 200 **API** endpoints, significantly reducing regression testing time and improving release cycles.
* Validated the integration of **DynamoDB** with other **AWS** services, such as Lambda and **API** Gateway, ensuring seamless interaction and functionality.
* Led the testing efforts for **DynamoDB** in a large-scale e-commerce platform, ensuring that the database could handle high-volume transactions and complex queries efficiently.
* Led the QA efforts for an e-commerce platform hosted on **AWS**, conducting performance, security, and functional testing across multiple **AWS** services.
* Developed and executed automated test scripts using **AWS** SDK to validate **DynamoDB** operations, including data retrieval, insertion, and updating processes.
* Responsible for preparing Weekly Status Report & handling multiple projects.

**Chaphekar Eng. Pvt. Ltd. Pune, India December 2013 – January 2015**

**Designation:- Trainee Engineer**

**Roles and Responsibility:-**

* Worked as a Trainee Engineer. Understanding requirements, Testing, Report and Data validation.

**Certification:-**

* ISTQB Foundation Level Certified.

**Educational Qualification:-**

* Bachelor’s in Engineering in Electronics and Telecommunication (2013) from Amravati University, Maharashtra.
* Completed Software Testing Course at Seed Infotech Pvt. Ltd.,Pune well versed with all the concepts in Manual and Automation Testing.