

# Madhukumar A

## Software Test Engineer

Email- madhuj6885@gmail.com

Mob - 6363406834

### **PROFILE EXPERIENCE**

**Test Yantra Software Solutions India Pvt.Ltd,**  
**Software Test Engineer**  
**Duration** 04/2025 – present

**Bhashini AI Solutions India Pvt.Ltd,**  
**Software Test Engineer**  
**Duration** 03/2021 – 04/2025

### **SKILLS**

#### **JAVASCRIPT**

- \* **Expertise on Variable Declaration (var, let, const) and data types.**
- \* Good exposure on **Program execution flow** and **Variable Hoisting** and **Function Hoisting.**
- \* **Expertise on JavaScript Features like Event loop, callback queue, micro task queue, template literal, Arrow function, class and Closure property.**
- \* Good knowledge in **Strings methods, Objects Methods and Array Methods.**
- \* Expertise in various type of functions like **Arrow Function, Standard Function, Function expression** and **IIFE(Immediately Invocable Function Expressions).**
- \* Knowledge of **OOPs Concepts - Encapsulation, Abstraction, Inheritance.**
- \* Creating **Objects** in different ways and fetching the values from object by using properties.
- \* Worked on predefined methods of Set timeouts, set Interval.
- \* Expertise in in-built methods like **apply (), bind() and call()** to perform function borrowing.
- \* Handled asynchronous behavior of JavaScript web API methods using **Promise.**
- \* Having experience in **Debugging the code**, if there is any deviation from desired result.

#### **PLAYWRIGHT**

- \* Navigating web pages, **interacting with UI elements** (buttons, forms, etc.)
- \* **Locating elements** using playwright built in locators and different strategies (CSS selectors, XPath, property etc.)
- \* Adopt in using playwright's **tracing, screenshots and video recording** features for debugging test failures.

### **OBJECTIVE**

A highly analytical and problem solving oriented **Software Test Engineer** with **4.1 years of experience** in test automation and manual testing. Expertise in **Playwright, JavaScript,** and Java and Selenium. Proven ability to implement best practices, and enhance test coverage to ensure high-quality software delivery.

### **PROJECTS**

#### **Health+, Healthcare, 13 months**

Health+ is an Health related web applications where the user Enable online appointment booking, telemedicine consultations, and access to medical records from anywhere. Streamline workflows for doctors, nurses and administrative staff (e.g. digital prescriptions, scheduling, billing)  
Empower patients to actively manage their health via personalized dashboards, reminders and education content.

**Tools :** JavaScript, Playwright, Visual Studio Editor, GitHub

#### **Roles and Responsibilities :**

- \* Design, develop, and maintain **end-to-end (E2E), functional, and regression test scripts** using **Playwright with JavaScript.**
- \* **Built and maintained Page Object Model (POM) architecture** to improve test code readability, maintainability and reusability.
- \* **Integrated Playwright tests into CI/CD pipelines** (GitHub Actions / Jenkins), enabling automated testing on every code commit and pull request.
- \* Identifying and selecting the manual test cases for automation.
- \* Generated detailed **HTML reports** for test execution analysis and debugging.
- \* Performed Parallel, Serial and Group execution of test suites.
- \* Leveraged **Playwright's auto-wait mechanism** to eliminate flaky tests and improve test stability.
- \* **Performed cross-browser testing** using Playwright across Chromium, Firefox, and WebKit to ensure consistent UI behavior.

- \* Testing web applications across different browsers (**Chromium, Firefox, Safari**).
- \* Managing **multiple browser contexts**.
- \* Managing **Web Elements includes input text box, radio buttons, checkboxes, dropdowns, frames, alerts etc**.
- \* Strong command over creating **POM pages** and accessing them via constructors.
- \* Having good knowledge in configuring **playwright.config.js** file.
- \* Generate detailed test report that includes **screenshots**, error logs, and step-by-step execution results for efficient reporting.

## **JAVA**

- \* Strong understanding of **Java syntax, variables, operators, loops, and conditionals**.
- \* Deep understanding of **primitive data types** (int, float, double, char, etc.) and **reference data types** (arrays, classes, interfaces).
- \* Knowledge of Control Flow with **if-else, switch-case, while, for, and do-while** loops, and **break/continue** statements.
- \* Worked on **OOPS concept Inheritance, Encapsulation, Polymorphism & Abstraction**.
- \* Expertise in **Method Overloading, Method Overriding**.
- \* Worked on **Up-casting and Down casting**.
- \* Handling errors using **try-catch-finally** blocks. Understanding of **checked and unchecked exceptions**.
- \* Conceptual Expertise on **Collection Framework, Array List, Set**.

## **SELENIUM WEBDRIVER**

- \* Experience in Test Automation using **Selenium Web Driver**.
- \* Proficient in **Web Driver, Web elements, locators, and Xpath**.
- \* Experience in **Handling Frames, Select and Actions Classes**.
- \* Proficient in **Alert Popup using the Web Driver methods**.
- \* Implemented **OOPS concept** in Automation Framework.
- \* Worked on **Data driven** in Selenium.
- \* Experience in build management tool **Maven**.
- \* Executed scripts in **parallel, batch, group, cross browser using testng.xml** file.
- \* Generated reports using **Test NG**.
- \* Proficient in **Page Object Model design pattern** with **Hybrid Framework**.

## **Declaration:**

I do hereby above particulars of information's and facts stated are true, correct and complete to the best of my knowledge and belief.

**MADHUKUMAR A**

- \* Contributed in **Data Driven Testing** by storing test data in JSON and Excel files.

\*Responsible for **managing the configuration file** for setting up test conditions before and after execution of test cases and **debugging**.

## **BUYGOO, E-Commerce, 36 Months**

BUYGOO is an innovative web-based application designed to enhance e-commerce shopping experience by offering exclusive rewards and benefits. With a user-friendly interface and seamless integration with popular e-commerce platforms, it ensures a smooth and hassle-free shopping experience.

**Tools :** Java, Selenium, Eclipse IDE, Maven, TestNG, Jira, GitHub, Jenkins

## **Roles & Responsibilities**

### **Automation Testing:**

- \* Identifying and selecting the manual test cases for **automation**.
- \* Understanding and executing the test cases to check for manual intervention.
- \* Creating object repository using **POM** design pattern.
- \* Developing the automation scripts using **Selenium Web Driver**.
- \* Worked on **Data Driven Testing** and Performed **Batch, parallel** and **Group** execution.
- \* By using **TestNG**, execution reports are generating.
- \* Analyzing the result and debugging the code.
- \* Automated all allocated module test cases using framework.
- \* Expertise in build management tool **maven**.
- \* Involved in **Git-Hub** activities like import, commit, pull, push.

### **Manual Testing:**

- \* Reviewing **design** and **user** documentation, **project specifications**, and requirements.
- \* Involved in brain smothering sessions for more test scenarios.
- \* Preparing the test scenarios by understanding the **sprint backlog** assigned to me.
- \* Converting test scenarios into test cases and implementing them.
- \* Performed smoke, **functional** and **regression** testing.
- \* Logging the **defects** when there are deviations between expected v/s actual using **JIRA**.
- \* Applying different Test case design techniques (Blackbox Techniques) **like Boundary Value Analysis (BVA), Equivalent Class Partitioning (ECP) and Error Guessing**.