NIKHIL MP
Software Test Engineer

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OBJECTIVE

Software Test Engineer with **4.2 years** of experience in Playwright Automation, Manual Testing, and API Testing using Postman . Strong expertise in designing scalable test frameworks, improving test coverage, and delivering reliable, high-quality releases. Skilled in JavaScript, Playwright, API validation, Agile practices, and defect management using Jira. Proven ability to ensure end-to-end quality across CRM and EMR applications.

EDUCATION

BAHUBALI COLLEGE OF ENGINEERING Bachelor of Engineering (ISE)	**GOVT. JUNIOR COLLEGE** 1st PUC and 2nd PUC	**UNITED ACADEMY SCHOOL** High School / Secondary Education

TECHNICAL SKILLS

- **Automation**:
  - **Playwright (JavaScript)**
    - Experienced in navigating web pages and interacting with various **UI elements** such as buttons, forms, input fields, and dynamic components.
    - Skilled in locating elements using multiple strategies including **CSS selectors, XPath**, **role-based locators, and text-based locators**.
    - Adept at using **Playwright's tracing, screenshots, and video** recording features for efficient debugging of test failures.
    - Proficient in using **Hooks** (beforeEach, afterEach) to reduce redundancy, improve **test performance**, and maintain a **consistent test environment**.
    - Experienced in testing web applications across different browsers such as Chrome, Firefox, and Safari, ensuring **cross-browser compatibility**.
    - Capable of managing multiple browser contexts and pages to test complex multi-session scenarios.
    - Strong command over designing **Page Object Model** (POM) structures and accessing page classes through constructors for scalable test automation.
    - Able to generate **detailed test reports** including screenshots, error logs, and step-by-step execution results for effective defect analysis and reporting.
- **Languages**:
  - **JavaScript:**
    - Expertise in variable declarations (var, let, const) and JavaScript data types.
    - Strong understanding of how **Program execution works** in memory, including **variable hoisting and function hoisting.**
    - Expertise in **ES6 features** such as let & const, default parameters, template literals, arrow functions, **classes** with static and non-static members, and strong understanding of **closures** for managing scope and encapsulation.
    - Proficient in different types of functions including **arrow functions, standard functions, function expressions, and IIFE** (Immediately Invoked Function Expressions).
    - Good understanding of **OOPs concepts** in JavaScript such as Encapsulation, Abstraction, and Inheritance.
    - Able to create **objects** in multiple ways and access values using object properties and methods.
    - Hands-on experience with predefined methods of **Array, Math, String, and Date objects**.
    - Experience in handling **asynchronous JavaScript behavior using Promises**.
    - Good experience in debugging JavaScript code using console logs and browser developer tools.

- **Web Technologies:**
  - HTML:
    - Proficient in creating well-structured and semantic HTML5 layouts for web pages.
    - Experienced in building **responsive page structures** using tags such as headers, footers, sections, forms, tables, and media elements.
    - Ability to integrate external resources like scripts, stylesheets, images, and embedded components efficiently.
  - CSS:
    - Strong understanding of **CSS3 for styling**, layout design, and visual customization of web pages.
    - Proficient in using **Flexbox to create responsive and modern UI layouts.**
    - Experienced in applying **selectors, pseudo-classes, pseudo-elements, transitions, shadows, and animations.**
    - Skilled in writing **clean, reusable, and maintainable** CSS with proper structuring and naming conventions.
    - Ability to create mobile-responsive designs using **media queries** and adaptive styling techniques.
- **API Testing**
  - Postman: Collections, Environments, Pre-request scripts, Test scripts, JSON response validation
  - REST APIs: Endpoint testing, request chaining, authentication headers, payload verification
- **Tools**: VS Code, Git/GitHub, Jira
- **Testing Skills**: Functional, Regression, Integration, System, E2E Testing, Test Case Design
- **Methodologies**: SDLC, STLC, Agile/Scrum

WORK EXPERIENCE

SOFTWARE TEST ENGINEER – TESTYANTRA SOFTWARE SOLUTIONS   **Sep 2021- Present**

PROJECT-2 : CRM WORKFLOW AUTOMATION PROJECT (B2B)
DURATION: 2.5 YEARS (29 MONTHS)   **Jun 2023- Nov 2025**

Responsibilities:

- Designed and implemented end-to-end UI Automation Scripts using Playwright, JavaScript, improving coverage of critical CRM workflows.
- Built and maintained a POM (Page Object Model) Automation Framework, ensuring scalable, modular, reusable, and maintainable test architecture.
- Automated core CRM modules including Campaigns, Leads, Opportunities, Quotes, Purchase Orders, Sales Orders, and Invoicing to support functional and regression testing.
- Utilized Playwright's Auto-Wait, Smart Locators, Trace Viewer, and Parallel Execution to significantly reduce flaky tests.
- Implemented Reusable Utilities, Custom Helpers, Data-Driven Testing (JSON), Config Management, and shared components to improve script efficiency.
- Integrated the automation suite with GitHub, GitHub Actions CI/CD, version control branching strategies, and automated pipeline execution.
- Generated Playwright HTML/Trace/Video Reports, analyzed script failures, and collaborated with QA, Developers, and Product Teams for defect resolution.
- Actively participated in Agile/Scrum ceremonies (Daily Standups, Sprint Planning, Retro) providing clear automation updates and technical insights.

WORK EXPERIENCE

Key Achievements:

- Automated 40–60% of end-to-end CRM Regression Suite, reducing manual testing effort and accelerating release cycle efficiency.
- Improved Test Stability & Reliability by resolving flaky tests using advanced Playwright waiting mechanisms, timeouts, and event monitoring strategies.
- Reduced execution time by developing Reusable Framework Components, Data-Driven Test Suites, Utility Functions, and environment-specific configurations.
- Strengthened CRM product quality by identifying High-Severity, High-Impact Defects across Campaign, Lead, Opportunity, Quote, PO, SO, and Invoice workflows.
- Streamlined E2E CRM Workflow Validation ensuring consistent data flow across Campaign → Lead → Opportunity → Quote → PO → SO → Invoice.
- Appreciated for Accurate Defect Logging, Detailed Bug Reports, Test Coverage Clarity, Agile Communication, and proactive collaboration with cross-functional teams.
- Contributed to improving overall QA efficiency by recommending enhancements in Test Strategy, Automation Framework, CI integration, and Release Readiness Processes.

PROJECT-1: HEALTRACE EMR (MEDICAL RECORD SYSTEM) **DURATION: 1.7 YEARS (20 MONTHS)**	**Sep 2021- Apr 2023**

Responsibilities:

- Analyzed EMR requirements and designed functional, regression, and integration test cases for patient registration, active visits, vitals capture, appointment scheduling, and patient search workflows.
- Performed end-to-end testing across core modules including patient listing, visit flow, vitals charts, and scheduling to ensure accurate data flow and UI behavior.
- Executed UI/UX testing to validate alignment, labels, navigation flow, responsiveness, and usability across clinical screens.
- Logged and tracked defects related to UI issues, incorrect data flow, validation errors, timezone inconsistencies, provider data issues, and scheduler failures.
- Conducted regression testing and retesting after fixes, ensuring system stability across multiple releases.
- Collaborated closely with developers and product teams for defect triaging, requirement clarifications, and workflow improvements.
- Maintained clear test documentation, test execution reports, and contributed to continuous QA process improvements.

Key Achievements:

- Identified major UI/UX issues across patient records, vitals, appointment, and visit management screens, significantly enhancing usability and consistency.
- Discovered high-severity functional defects including broken location updates, incorrect timezone handling, missing provider data, scheduler failures, and admin report issues.
- Ensured accuracy of critical patient workflows (registration → visit → vitals → scheduling) by validating complete end-to-end data flow.
- Improved application stability by uncovering defects causing large data crashes and abnormal provider availability scenarios.
- Strengthened product quality by mapping defects to correct severity/priority, enabling faster and more efficient triaging.

DECLARATION

I hereby declare that all the information provided above is true and correct to the best of my knowledge and belief.

NIKHIL MP