

# Sana Iftikhar

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## Professional Summary

Detail-oriented QA Tester with expertise in manual and automation testing of web and mobile applications. I am skilled in functional, regression, API, and database testing, with strong knowledge of Agile/Scrum, SDLC, and STLC. Proficient in Selenium, Cypress, Postman, SQL, and CI/CD pipelines. Background in mechanical engineering design (HVAC) with proven ability to deliver projects from concept to completion.

## Technical Skills

- Testing & QA: Functional, Regression, Smoke, Sanity, Usability, Mobile, Cross-Browser
- Automation Tools: Selenium WebDriver, Cypress, Appium, TestNG, Cucumber, Gradle, POM
- API Testing: Postman, REST Assured, Swagger
- Databases: MySQL, MariaDB, PostgreSQL, MongoDB | SQL Certified
- Programming: Java, JavaScript, SQL, HTML, CSS, JSON, XML
- DevOps/Tools: JIRA, Zephyr, Git, GitHub, Jenkins, GitHub Actions, Chrome DevTools
- Platforms: Windows, macOS, Android, iOS

## Professional Experience

### Freelance QA Manual Tester | Smart School Management System | Jun 2025 – Present

- Designed and executed manual test cases for web and mobile applications.
- Performed functional, regression, smoke, and cross-browser testing.
- Verified API endpoints using Postman, validated backend data with SQL queries.
- Logged and tracked defects in JIRA; collaborated with developers for quick fixes.
- Created BDD scenarios using Gherkin to support UAT and improved test coverage.

### HVAC Design Engineer | S. Mehboob & Co. | 2008 – 2010

- Delivered HVAC design for high-rise and commercial projects from concept through BOQ and tender submissions.
- Performed load calculations, plant room layouts, and equipment selection (chillers, cooling towers, pumps).
- Prepared Bills of Quantities (BOQ) and project documentation using HAP and CAD/CAM software.

## Projects (Automation & QA)

### E-Commerce Automation | Selenium, Java, TestNG, CI/CD

- Designed and developed a robust automation framework using Java, Selenium WebDriver, TestNG, and Gradle to validate end-to-end workflows of an E-Commerce application (OpenCart).
- Implemented the Page Object Model (POM) to enhance code reusability, maintainability, and modularity across test components such as login, product search, add-to-cart, and checkout.
- Utilized TestNG annotations, data providers, and grouping to organize smoke, regression, and functional test suites effectively.
- Configured Gradle build automation to manage dependencies, streamline test execution, and integrate easily with CI/CD pipelines.
- Integrated with Jenkins for automated builds and continuous test execution on schedule.
- Performed cross-browser and UI validation across Chrome, Firefox, and Edge to ensure consistent visual and functional behavior.

- Enhanced test reliability through data-driven testing, reusable utilities, and centralized configuration management.
- Generated detailed Extent and Allure Reports for execution analytics, test coverage, and pass/fail summaries.
- Reduced regression testing time by 40% through efficient framework design and optimized test case organization

#### **Koel Music Player Automation | Selenium, Java, Jenkins**

- Built a scalable Page Object Model (POM) framework from scratch using Selenium WebDriver, Java, TestNG, and Gradle to automate the web-based music player “Koel.”
- Automated key user workflows include login authentication, playlist creation, song upload, and playback validation.  
Implemented modular test design with reusable page classes, centralized driver management, and custom utility functions for synchronization and reporting.
- Managed cross-browser testing and optimized element locators to ensure consistent behavior across different environments.
- Integrated with Jenkins CI/CD pipeline to enable scheduled test runs, automatic builds, and continuous test execution feedback.
- Configured Gradle tasks for streamlined build execution and parallel test management.
- Enhanced test reporting using Extent Reports for visual summaries and detailed execution logs.
- Strengthened test reliability by applying Fluent Waits, exception handling, and proper teardown routines to avoid flaky tests.

#### **REST Assured API Automation | Java, REST Assured, TestNG, Allure, Extent Reports**

- Developed a data-driven API automation framework for testing E-Commerce platform APIs (Fake Store).
- Implemented CRUD operations for Users and Products modules using REST Assured.
- Used Faker library for generating dynamic payloads and validated JSON schemas & status codes.
- Integrated Allure & Extent Reports for detailed execution analytics and reporting.

#### **API Testing | Postman**

- Created REST API collections, validated JSON/XML responses, and tested end-to-end workflows.

### **Education & Certifications**

- QA SDET & Automation Bootcamp – Test Pro | Completed Sept 2025
- B.S. Mechanical Engineering – NED University of Engineering & Technology, 2007