

Reyad Hassan

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Portfolio

Summary

Quality assurance engineer with 2+ years of hands-on expertise in designing scalable automation frameworks and ensuring reliability across API, web, and mobile platforms. Focused on implementing Shift-Left testing practices, building quality into early development stages, and collaborating with cross-functional teams to deliver robust software solutions.

Experience

Pathao

SQA Engineer I

June 2025 – Present

Gulshan 2, Dhaka, Bangladesh

- Projects:** Pathao Food, Pathao Adspace, Driver Supply, Driver Earnings, Pathao Drive App, Pathao User App, Pathao Points, Driver Quest, Biometric Authentication, Driver Referral, In-app Popup & Notification, Pathao Boss, Pathao Dynamic Links, etc
- Maintained a Shift-Left testing culture by conducting requirement analysis and acceptance criteria refinement, identifying requirement gaps and pre-development defects, reducing feedback loops and post-release bug escapes by **3-4 days** per release on average.
- Designed and extended a hybrid Playwright & TypeScript automation framework automating **50+ regression test cases** across API and UI layers, reducing manual testing effort by **20-30%** (12 hours/sprint) and enabling rapid release cycles.
- Ensured API and backend reliability by executing comprehensive testing across REST endpoints, analyzing server logs, validating SLA compliance for **20+ microservices**, conducting database integrity checks, and leveraging **Locust** for performance testing (load, spike, soak scenarios).
- Validated end-to-end food order journeys and payment flows across Pathao Food, User App, and Resto App, ensuring functional correctness, data consistency, and seamless user experience for consumers, vendors, and operations teams.
- Automated complex end-to-end food order journeys covering different restaurant billing models, dispatch mechanisms, and restaurant types, including multiple dispatch scenarios and order workflows, significantly increasing test coverage and automation reliability for diverse operational contexts.
- Introduced Requirements Traceability Matrix (RTM) and performance metrics to increase requirement-test coverage visibility; conducted thorough mobile app testing across Android and iOS devices.

Indetechs Software Ltd

Junior SQA Engineer

Nov 2024 – Jun 2025

Manchester, United Kingdom

- Projects:** Digital Product Passport, JIDEP, TVS ERP, TVS Website, Climas, C2Impress
- Developed and executed comprehensive test plans, test cases, and traceability reports; identified and reported defects with detailed root cause analysis to align with sprint goals and release quality standards.
- Created Web and API automation scripts using Playwright, Postman, and ApiDog, reducing regression testing effort and improving test efficiency across multiple projects.
- Conducted exploratory, ad-hoc, and design testing aligned with Figma specifications; validated requirements through static testing to resolve anomalies early and prevent downstream issues.
- Collaborated proactively with Product, Development, and Design teams to clarify requirements, troubleshoot failures, and ensure smooth test-to-release cycles.

RedDot Digital Limited

Trainee SQA Engineer

Jun 2024 – Oct 2024

Gulshan, Dhaka, Bangladesh

- Projects:** Jamuna Bank Limited HRIS Solution, Southeast Bank Limited E-Recruitment Solution, Robi Workflow Management System
- Prepared test plans, acceptance criteria, test scenarios, and report bugs through **Jira** for Robi Workflow Management, General Banking & Human Resource Management modules.
- Liaising with the Development & QA team to swiftly resolve faults.
- Ensuring testing activities perfectly align with the sprint goals by participating in **Daily Scrums**.
- Prepare **Business Requirement Document** for business team & **Feature Workflow** notes for the clients.
- Perform **Beta Testing** and analyze **UAT** feedback from clients.
- Design, develop, and execute automation scripts using open source tools.

Technical Skills

- QA Core Competencies:** Requirement Analysis, Test Planning & Design, Test Case Preparation & Execution, Risk Identification, Root Cause Analysis (RCA), Bug Reporting, Test Reporting
- Programming Languages:** TypeScript, Python, Java
- Test Automation:** Playwright (TypeScript/Python), Mobilewright, Selenium, Appium, TestNG, Pytest
- API & Backend Testing:** Postman, REST Assured, Newman, SQL (Database Testing & Validation)
- Performance Testing:** Locust (Load, Spike, Soak, Stress Testing)
- CI/CD & Version Control:** Git, GitHub Actions, GitLab CI
- Test Management & Infrastructure:** Jira, Qase, BrowserStack (Cross-Browser Testing)

Projects

- Playwright: Hybrid Automation Framework** | *Playwright, TypeScript, PostgreSQL/MySQL, Allure, Zod* [Source Code](#)
- Architected hybrid API + UI framework with 90% code reusability via dependency injection and service-oriented patterns, reducing regression execution from 3 hours to 50 minutes across 50+ tests with parallel execution and fixture-based lifecycle management.
 - Implemented multi-layer validation (JSON Schema/Zod), database testing (PostgreSQL/MySQL), OAuth caching, network interception for API mocking, and automatic failure capture (screenshots/videos/traces) - enabling 80% endpoint coverage with high stability.
 - Integrated Allure reporting, Winston logging with request/response details, Prometheus monitoring, and soft assertions to improve debugging efficiency and reduce false positives across multiple environments.
- Locust: Distributed Performance Testing Framework** | *Locust, Python, Docker* [Source Code](#)
- Built spike load testing framework simulating 0-500 concurrent users to identify performance bottlenecks; discovered critical API failures (270 RPS, 57% failure rate at peak) by analyzing pod logs and database query times.
 - Implemented distributed load testing with Docker Compose master-worker architecture, generating thousands of RPS while monitoring real-time metrics; designed modular architecture with FastHttpUser, environment-based config, and reusable payload generators for easy scaling.
- Playwright: E-Commerce App UI Automation (Otto.de)** | *Playwright, Pytest, Python, Page Object Model* [Source Code](#)
- Automated critical user flows (product search, filtering, sorting, add-to-cart) using Playwright and Pytest with Page Object Model; generated HTML reports with screenshots and error details for enhanced debugging.

Education

Faridpur Engineering College	Feb 2019 – May 2024
<i>Bachelor of Science in Computer Science and Engineering</i>	<i>Faridpur Sadar, Faridpur</i>

Research & Publications

- An Approach to Automatic Leaf Recognition of Bangladeshi Plants Using Image Processing Techniques and Random Forests**
Published by IEEE. DOI: [10.1109/PeeIACON63629.2024.10800110](https://doi.org/10.1109/PeeIACON63629.2024.10800110)