

Manik Hossain

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SUMMARY:

Software QA Engineer with 4 years of hands-on experience in Manual, Automation, API, and Performance Testing across SaaS, ERP, E-commerce, and government projects. Proven track record of building automation frameworks from scratch using Selenium (Python/Java) and Playwright, cutting regression execution time and improving test coverage. Skilled in Functional, UI, Integration, and Cross-browser Testing, with strong knowledge of SDLC, STLC, Agile, and Waterfall. Proficient in CI/CD, API Testing, and Performance Testing (JMeter). Experienced in Payroll and ERP domains, and contributed as Associate PM by managing sprint planning, client communication, and ensuring timely delivery.

EXPERIENCE:

Role: SQA Engineer

Company: ZAAG Systems Limited

September 2024 – Present | 2 Years

- Analyzed requirements, prepared test scenarios, identified critical defects, and collaborated with developers to ensure timely resolution.
- Led Functional, Regression, and Cross-browser testing for web/mobile applications, ensuring defect leakage stayed under 2% in production.
- Automated high-priority workflows with Playwright-python, reducing regression time by 40%.
- Acted as Associate Project Manager, coordinating sprint planning, timelines, and client communication across 3 teams, ensuring all milestones were delivered on schedule.

Role: Software Quality Assurance Engineer

Company: Kraftwerk Technologies Limited

May 2024 – August 2024 | 04 Months

- Established QA infrastructure in a startup environment, setting up test processes from scratch.
- Developed a Python-Selenium Hybrid Automation Framework, enabling faster test execution.
- Executed sprint-based test cycles, covering Functional, UI, and Integration Testing across browsers.
- Increased overall test coverage by 35%, improving product stability before client releases.

Role: Jr. SQA Engineer

Company: Continental Technologies (BD) Limited

September 2022 - April 2024 | 20 Months

- Writing clear, concise, review and analyze system specifications and comprehensive test plans and test cases for Intellectual Capital Management.
- Executed functional and regression testing for Payroll and ERP projects
- Performed Load & Stress Testing using JMeter, validating systems to handle 1,000+ concurrent users.
- Created user manuals, workflows, and FAQs, and trained client teams on Payroll & ERP projects, improving adoption and reducing support requests.

SKILLS:

Manual Testing Requirement analysis, test planning & design, execution across sprint cycles, defect triaging using JIRA, regression & smoke testing for web and API layers.

Key Skills Selenium (Python, Java), Playwright (Python), Pytest, TestNG, Junit, Cucumber (Gherkin), API Testing (Postman, Newman), Performance Testing (JMeter), CI/CD (Jenkins, Git), JIRA

Languages/Scripts Python, Java, SQL, Gherkin, Data Formats (XML, JSON), HTML5, CSS, Bootstrap

Framework/Model	Page Object Model, Hybrid, BDD (Cucumber), Data-Driven & Keyword-Driven approaches, Pytest Framework
Databases	ORACLE, MySQL, SQL Server- used for backend data validation and query-based testing
Concept	SDLC, STLC, Agile, Waterfall, Defect Lifecycle, Test Design Techniques, OOP Principles
Generative AI	ChatGPT, Claude, Gemini, OpenAI, GitHub Copilot, and MCP servers to accelerate QA workflows including automated test case generation, script refactoring, documentation drafting, and exploratory test planning using AI-assisted analysis.
Operating Systems	Windows, Linux, MacOS
IDE	PyCharm, Eclipse, Postman, IntelliJ, VS Code

PROJECTS:

1) Key Projects (Corporate Experience)

- a) **Labbaiik**: Hajj app; performed functional and regression testing for pilgrim guidance and usability.
- b) **Apex Footwear**: Performed functional, regression, integration, API testing, validating UI/UX workflows
- c) **Mumuso Bangladesh**: Led end-to-end QA for the consumer website and admin panel, covering functional, regression, API, and UI/UX testing with direct client coordination.
- d) **Dr. Wash**: Independently handled QA for Android and iOS apps, covering functional, regression, API, and UI/UX testing, along with admin panel testing and client coordination.
- e) **OS Pharmacy**: Pharmacy management system; tested inventory, purchase, sales, accounts modules.
- f) **Zaagshop**: Online marketplace; performed UI, functional and regression, API testing across web.
- g) **ZaagAI**: RAG based AI solution; ensured regression validation, API stability and model accuracy.

2) Manual Testing

- a) **Test Case Writing**: • [Walton eplaza](#), • [Chaldal](#)
In these projects, I have done writing Test Cases, Test Case Report, Bug Report, Test Metrics and Mind Maps.
- b) **API Testing Using Postman**: • [Student Details](#), • [Swagger Petstore](#), • [Restful-Booker](#)
To develop, GET, POST, PUT, PATCH, and DELETE methods are used. Data Sets are produced using Dynamic Random Variables, and a collection runner is used to import a CSV file. Lastly, Newman generates the reports in HTML format.
- c) **Performance Testing**: [Restful-Booker](#)
In this project, I took a demo website for Load testing and Stress testing. Then the report generated in HTML format.

3) Web Automation Testing

[Selenium Python Hybrid Framework](#), [Behave BDD Selenium Python Hybrid Framework with Page Object Model](#), [Page Object Model](#), [Page Object Model with Page Factory](#)
Project on BDD Approach (Behavior Driven Development). Test automation framework pattern is Page object Model based on Java & Selenium. Used Cucumber for implement BDD and Allure for Reporting.

EDUCATION:

BSc. in Computer Science & Engineering , Stamford University Bangladesh	Jan 2018-Feb 2023
CGPA-3.67/4	Dhaka, Bangladesh
Higher Secondary Certificate (H.S.C) , Monipur Uchcha Vidyalaya & College	2015-2016
GPA-4.33/5	Dhaka, Bangladesh

TRAINING & CERTIFICATIONS:

Software Quality Assurance & Cyber Security , IT Training BD	May 2023-Present
Web Design & Development , National Institute of Engineering & Technology	Mar 2015-Aug 2016
National Skill Standard Basic Course Examination , Matlab KCP Institute	Jan 2015-Jun 2015

RESEARCH:

My first paper entitled '[Physiotherapy Exercise Classification by Exploring Knowledge Distillation with Attention Modules](#)' was accepted in **NCIM-2023** at Dhaka University of Engineering & Technology, and now it is available on **IEEE Xplore**.