

DEEPESH YADAV

QA AUTOMATION ENGINEER | PLAYWRIGHT | TYPESCRIPT | AGENTIC AI TESTING

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PROFESSIONAL SUMMARY

QA Automation Engineer with 5+ years of experience in software quality engineering, end-to-end testing, automation framework development, and continuous testing. Strong expertise in Playwright with TypeScript, JavaScript, Python, Selenium, and Pytest. Focused on designing maintainable automation frameworks, defining risk-based QA strategies, integrating automated tests into CI/CD pipelines, and applying AI-assisted and agent-based approaches to test design and failure analysis.

CORE TECHNICAL SKILLS

- Automation:** Playwright, Selenium WebDriver, Pytest, Robot Framework
- Languages:** TypeScript, JavaScript, Python
- Playwright:** POM, fixtures, API testing, browser contexts, parallel execution, cross-browser testing, authentication, trace and report analysis
- AI Testing:** Agentic AI concepts, AI-assisted test generation, test planning agents, failure analysis, GitHub Copilot, MCP concepts
- QA Strategy:** Test strategy, test planning, risk-based testing, functional, regression, smoke, integration and exploratory testing, defect triage
- API and Data:** REST API testing, request/response validation, JSON, SQL and database testing
- CI/CD and Tools:** Git, GitHub, GitHub Actions, Jenkins, HTML reports, Allure Reports, environment configuration, AWS fundamentals

PROFESSIONAL EXPERIENCE

QA Automation Engineer / Senior QA Automation Engineer | [Current Company] | [Location]

- [Start Date] - Present
- Designed, developed, and maintained end-to-end automated test suites using Playwright and TypeScript for web applications.
 - Built reusable framework components using Page Object Model, custom fixtures, shared utilities, configuration management, and test data handling.
 - Defined automation scope and risk-based testing priorities aligned with business-critical workflows and release goals.
 - Automated regression scenarios and cross-browser workflows to improve test consistency and release confidence.
 - Integrated automated tests into CI/CD workflows using GitHub Actions or Jenkins to support continuous testing and early defect detection.
 - Implemented API checks for service behavior, response payloads, status codes, negative scenarios, and integration behavior.
 - Investigated failures, analyzed reports and diagnostic artifacts, and improved test maintainability and stability.
 - Explored AI-assisted testing workflows for test planning, script generation, and failure analysis, with human validation of generated outputs.
 - Collaborated with developers and product stakeholders on requirement coverage, defect prevention, code reviews, and quality improvements.

QA Automation Engineer | [Previous Company] | [Location]

- [Start Date] - [End Date]
- Created and maintained automated test scripts using Python, Selenium WebDriver, and Pytest.
 - Converted manual scenarios into reusable automated tests based on business priorities and regression needs.
 - Developed test utilities, fixtures, assertions, test data handling, and configuration mechanisms.
 - Performed functional, regression, integration, and API testing; reported defects and validated fixes with development teams.
 - Used Git for version control and supported repeatable test execution through CI/CD pipelines.
 - Prepared test execution summaries and communicated defects, risks, and release validation results to stakeholders.

SELECTED TECHNICAL PROJECTS

Playwright with TypeScript - End-to-End Automation Framework

- Designed a modular framework with POM, reusable fixtures, environment-specific configuration, and test data management.
- Configured parallel execution, browser/context management, authentication reuse where appropriate, and automated reporting.
- Used traces, screenshots, and structured reports to support debugging and failure investigation.

Agentic AI for QA Automation

- Explored AI-assisted workflows for translating requirements into test scenarios and automation scripts.
- Investigated agent-based test planning, test generation, and failed-test analysis, including MCP-based integration concepts.
- Applied human review and deterministic assertions to validate AI-generated test assets.

CI/CD-Integrated Regression Testing

- Configured automated test execution within CI/CD workflows and organized regression suites for repeatable validation.
- Used reports and diagnostic artifacts to investigate failures and support early defect detection.

QA STRATEGY AND QUALITY ENGINEERING

Risk-based test prioritization; automation scope and coverage planning; framework standards and code reviews; flaky-test investigation; root cause analysis; release readiness reporting; monitoring pass rate, automation coverage, defect leakage, and execution duration.

EDUCATION AND CERTIFICATIONS

Education: [Degree / Qualification], [Institution], [Graduation Year]

Certifications: [Relevant Testing, Automation, AI, or Cloud Certifications]

ADDITIONAL INFORMATION

Target Roles: QA Automation Engineer, Senior QA Automation Engineer, Playwright Automation Engineer, AI Testing Engineer

Work Preference: [Remote / Hybrid / On-site] | **Notice Period:** [Your Notice Period]