

Mohamed Moheyeldin

Senior SDET | Test Automation Lead | Quality Engineering

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PROFESSIONAL PROFILE

Senior Software Development Engineer in Test and Test Automation Lead with 10+ years of experience delivering scalable, reliable software across federal, banking, e-commerce, and enterprise environments. Specialized in UI, API, integration, and end-to-end automation using Playwright, Cypress, Selenium WebDriver, TypeScript, JavaScript, Java, Cucumber BDD, REST Assured, and Postman.

Combines hands-on framework engineering with technical leadership: defining test strategy, automation roadmaps, framework standards, risk-based testing, release-readiness criteria, and quality engineering practices while remaining active in development, debugging, code review, test implementation, and failure analysis.

CORE EXPERTISE

Test Automation Architecture | UI and API Testing | CI/CD Quality Gates | Manual and Exploratory Testing | Risk-Based Testing | Team Leadership and Mentoring

TECHNICAL SKILLS

Automation: Playwright, Cypress, Selenium WebDriver, Cucumber BDD, Applitools

Programming & API: TypeScript, JavaScript, Java, SQL, Playwright API, REST Assured, Postman, Contract Testing, Schema Validation, Network Mocking

Delivery: GitHub Actions, Azure DevOps, Jenkins, Bamboo, Cypress Dashboard, AWS, EC2, S3, Aurora DB

Data & insight: Oracle, SQL Server, MongoDB, JMeter, Datadog, Allure, Elastic Stack, Extent Reports

Test frameworks: TestNG, JUnit, Mocha, Chai, Jest, Selenium Grid, Applitools Eyes

PROFESSIONAL EXPERIENCE

Senior SDET / Test Automation Lead | Booz Allen Hamilton | 2020-12 - Present

Hands-on automation engineering and technical leadership in federal delivery environments, guiding framework direction while improving the quality signals teams use to make release decisions.

- Led a team of five automation engineers, establishing scalable test strategies, resource planning, and automation standards.
- Designed Cypress and Playwright frameworks for UI and API testing with resilient asynchronous handling, retry logic, and robust assertions.
- Built GitHub Actions pipelines that distributed Cypress Dashboard and Playwright workloads across multiple virtual machines, managed artifacts, and provisioned environments dynamically for faster, diagnosable feedback.
- Used AWS EC2, Aurora DB, and S3 to support on-demand test environments and scalable test execution.
- Implemented automated defect triage through Jira API integration and risk-based failure prioritization.
- Created test dashboards with Allure and Elastic Stack for trend analysis, failure-pattern recognition, and anomaly detection.
- Balanced parallel workloads using suite composition and observed execution time, then tracked worker timing, retries, failure categories, artifact completeness, and environment health.
- Developed data-provisioning utilities using JSON, Excel with Apache POI, and SQL-driven injection for mock responses and contract testing.
- Configured Selenium Grid for parallel cross-browser testing and JMeter performance benchmarks.

Software Engineer in Test | Chick-fil-A Corporate | 2018-11 - 2020-12

Moved quality feedback earlier in the delivery lifecycle by connecting browser, API, visual, authentication, cloud-environment, and CI concerns into maintainable test systems.

- Architected GitHub Actions pipelines integrating Cypress Dashboard and AWS for automated execution and rapid feedback.
- Designed modular smoke and regression suites with JavaScript, Cypress, and Mocha, including flaky-test mitigation.
- Integrated Applitools Eyes visual regression testing across multiple resolutions, devices, and browsers.
- Developed Cypress and Postman API suites with contract testing, schema validation, and dynamic data-driven assertions.
- Implemented OIDC and Okta MFA automation in Cypress for SSO-based applications.
- Managed AWS EC2, Aurora DB, and S3 resources with AWS CLI to support scalable test environments.

- Applied parallel execution, network stubbing, and headless testing to reduce test run time while maintaining accuracy.
- Used Cypress Dashboard duration, failure, retry, video, and screenshot evidence to diagnose bottlenecks and tune parallel execution.

Software QA Engineer | Ally Bank | 2015-09 - 2018-11

Built a foundation in risk-based testing, cross-browser investigation, clear defect communication, and release validation across complex banking experiences.

- Performed exploratory, functional, and regression testing of web applications across multiple platforms.
- Created test plans, test cases, and acceptance criteria aligned with business and functional requirements.
- Executed cross-browser and responsive UI testing on Chrome, Firefox, Safari, and Edge.
- Turned defects into decision-ready evidence in Jira by documenting reproduction paths, business impact, environment details, and verified fixes.
- Ran smoke, regression, and sanity testing across development, QA, UAT, and staging environments.
- Connected UI behavior, SQL data checks, pre- and post-deployment validation, hotfix verification, and production monitoring across the customer path.
- Built traceable coverage across business requirements, platforms, browsers, environments, and high-risk customer scenarios.

PORTFOLIO SYSTEM

A connected UI, API, CI/CD, cloud-environment, and diagnostics strategy for complex federal software delivery.

- Multi-layer UI and API automation architecture
- Parallel CI execution with complete diagnostic artifacts
- Risk-based failure prioritization and automated defect triage
- Technical leadership for a five-engineer automation team

EDUCATION & CREDENTIALS

Bachelor's degree in Computer Science | American College of Commerce and Technology | 2014

- Cucumber BDD Automation Framework
- Implementing SAFe Course (5.1) · Scaled Agile, Inc. · 2021
- Leading SAFe 4.0 Course · Scaled Agile, Inc. · 2016