

PATRICK CHAU

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SUMMARY

QA Automation Engineer with extensive experience leading end-to-end testing strategies and managing relationships with IT and business stakeholders. Skilled in developing scalable automation frameworks, integrating CI/CD pipelines, and standardizing quality assurance processes to drive faster, more reliable releases. Proven track record of reducing testing costs and post-release defects while enhancing cross-functional collaboration.

SKILLS

- **Tools & Platforms:** Playwright, Selenium, Cypress, WebdriverIO, Appium, Postman, Swagger/SwaggerUI, Browser-Stack, Allure, Azure DevOps, Jenkins, GitHub Actions, Jira, TestRail, ALM, Confluence, Git, VS Code, Xcode, Firebase, Excel, Docker
- **Test Engineering:** Test Automation, BDD/TDD, Regression Testing, End-to-End Testing, Performance Testing, Security Testing, Manual Testing, UI/UX Validation, Cross-Browser Testing, HTML, CSS, JavaScript, TypeScript, SQL, Node.js, Mocha, Chai, Cucumber, Linux/Unix
- **Methodologies:** Agile/Scrum/Kanban, CI/CD, SDLC, Sprint Planning, Defect Triage, Requirements Analysis, Technical Documentation, Team Leadership, Stakeholder Management, Cross-Functional Collaboration

PROFESSIONAL EXPERIENCE

Univar Solutions

QA Automation Engineer

Feb 2023 - Present

Chicago, IL

- Drove down testing costs by \$500,000 through strategic development of scalable E2E automation test coverage in Agile/Scrum environments, leading to a 65% drop in manual QA and faster release cycles.
- Reduced post-release defects by 80% through pioneering Univar's first formal quality assurance process and establishing standardized quality practices via cross-functional collaboration to improve user experience.
- Cut support costs by 25% through backend admin test optimization, reducing customer-facing errors and boosting data accuracy across eCommerce systems.
- Eliminated \$150,000 annually in redundant manual E2E test processes by transitioning to automation, improving test reliability, and freeing engineering capacity across sprints.
- Minimized critical defects by 50% through implementing a new process for bug assessment utilizing root cause analysis, increasing test case creation by a substantial 30 cases per sprint.
- Revamped CI/CD pipelines by adopting Playwright and GitHub Actions, unlocking parallelization, Allure reporting, and fully automated regression test runs, boosting the defect detection rate by 27%.
- Led transition to Playwright from legacy Selenium and WebdriverIO frameworks, improving test speed by 35% and cutting flaky tests by over 90%, resulting in more reliable deployments.
- Orchestrated the adoption of modern Playwright frameworks incorporating JavaScript, contributing essential modular page objects, and test utilities, which led to a 90% reduction in flaky tests.

Sphera Solutions

Senior QA Engineer

Jun 2021 - Feb 2023

Chicago, IL

- Delivered \$1,200,000 annual savings by orchestrating QA transformation with 25% faster release cycles, directing three teams in implementing CI/CD practices and risk-based testing methodologies, and strengthening stakeholder management.
- Promoted to a QA lead role, expanding from individual contributor to team-wide QA coordination, mentoring offshore testers, leading defect triage, and owning quality standards through team leadership for the Purple Squad.
- Spearheaded Allure/Azure DevOps integration, yielding \$4,000,000 in revenue while cutting production defects by 40%, and constructing regression frameworks spanning 10+ enterprise projects, delivering critical value.
- Constructed a comprehensive Cypress test suite using BDD/TDD practices, encompassing 175+ end-to-end scenarios integrated into CI/CD, enhancing test coverage by 20% and surpassing team goals.
- Instituted 175+ end-to-end Cypress test cases within the CI/CD pipeline, decreasing defect escape rate by 40% and improving the stability of builds by 50%, directly improving release quality.
- Engineered 80+ Selenium tests in Azure DevOps/Jenkins, targeting critical modules and reducing Severity 1 incidents by 7% by fixing top crash causes.
- Pioneered migration from Selenium to Playwright, boosting execution efficiency by 40% and reducing weekly flaky tests from 100+ to under 10, while enhancing CI/CD integration and simplifying test maintenance.
- Collaborated on Cypress-based test projects and contributed reusable JavaScript testing patterns and peer reviews.