

Mauro Gabriel Pedano

Test Automation Architect | QA Technical Lead

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Professional Summary

Test Automation Architect and Software Development Engineer in Test (SDET) with 10+ years of experience in software quality and technical leadership. Experience as Head of Quality and sole QA professional, defining quality strategy and building functional and performance testing frameworks. Combines hands-on automation engineering with CI/CD integration, containerized test execution, mentoring, and communication with technical and business stakeholders.

Technical Skills

Test automation: Playwright, Cypress, Selenium WebDriver, Robot Framework, BehaveX, Cucumber, Gherkin, JBehave, TestNG, Serenity, REST Assured

Languages and data: TypeScript, JavaScript, Java, Python, SQL, HTML, CSS

Testing: Functional testing, API testing, integration testing, performance testing, visual testing, unit testing, test case design, defect reporting and tracking

API and performance tools: Postman, JMeter, k6, Locust, Mountebank

DevOps and environments: CI/CD, GitLab CI/CD, Jenkins, Docker, Git, SSH, Linux, Windows

Practices: Agile, Scrum, BDD, TDD, SOLID principles, functional programming

Leadership: Automation architecture, technical leadership, mentoring, test estimation and planning

Professional Experience

Head of Quality

Datumsure | December 2023 - October 2026

Served as the company's sole QA professional, first on doTERRA and then owning quality for Tapestry after the client project ended.

- Promoted shared quality practices through recurring reviews with Tapestry team representatives before joining the product.

doTERRA - Client project

NestJS and Next.js wellness platform using connected health data to inform recommendations for products, healthy habits, and exercise.

- Coordinated the development team, acted as the client liaison, and translated requirements into functional tasks within technical constraints.
- Built a Playwright end-to-end test automation framework and integrated it into GitLab CI/CD to run after deployments to lower environments.
- Built a configurable k6 framework measuring request latency, payload metrics, and p50, p90, and p99 percentiles, extending an existing JMeter process assessed through database-record counts.
- Owned manual production deployments over SSH to the client's on-premises servers, coordinating release tasks with other teams.

Tapestry - Internal product

Datumsure platform integrating databases from multiple sources and providing users with AI-powered data analysis.

- Defined the quality strategy and negotiated feature scope with the product lead.
- Built a BehaveX and Python automation framework, expanding validation beyond sprint demos of feature happy paths to less common scenarios.
- Introduced Gherkin so managers could understand test coverage and interpret passing and failing results.
- Co-designed a system with DevOps to deploy test environments, execute tests, and expose service status, basic metrics, and logs without requiring access to the AWS console.
- Containerized testing frameworks, persisted reports in volumes, and removed runners after execution to optimize resource usage.
- Built a Locust performance testing framework to assess how new features affected application performance.
- Validated client-data access policies and helped define improvements to policy storage and enforcement, including redaction of restricted data before exposure to a large language model (LLM).

Automation Architect

Incluit - iDocket UCMS | June 2022 - November 2023

- Built a Cypress and Cucumber framework, selected scenarios for automation, and integrated execution into Jenkins after deployments.
- Containerized test execution with Docker for consistent local environments.
- Mentored automation engineers and manual QA staff in functional programming and maintainable automation practices.
- Introduced performance testing with k6 and identified several critical performance defects.
- Designed continuous and visual testing solutions and used Cypress to capture workflows for k6 scripts.

QA Manager / Software Development Engineer in Test

Wazuh - Kibana App | April 2021 - June 2022

- Managed QA planning and defect tracking while remaining hands-on with functional and automated testing.
- Established a Cypress automation repository and maintained local Docker test environments.

Software Development Engineer in Test

PinApp - Farmacias Peruanas | March 2020 - April 2021

- Automated test cases using Java, Serenity, Selenium WebDriver, and SQL.
- Performed functional frontend testing and API testing with Postman and JMeter.

Software Development Engineer in Test

McAfee - Application Control and EDR | August 2018 - March 2020

- Developed and maintained automated tests using Java, TestNG, Selenium WebDriver, and SQL for Application Control and EDR.
- Tested cross-platform integrations and manual scenarios against acceptance criteria.
- Trained developers and QA staff in automation and mentored an intern through their progression to a full-time SDET role.

Test Automation Engineer

eSolutions - Claro WDC and Aloha | November 2016 - August 2018

- Performed functional and cross-platform integration testing and automated scenarios using Robot Framework, Python, Selenium WebDriver, and SQL.

Test Automation Engineer

Globant - Southwest Airlines MVision | May 2015 - November 2016

- Performed functional and cross-platform integration testing and automated scenarios using Java, JBehave, Selenium WebDriver, Mountebank, and REST Assured.

Selected Projects

- **Cypress Framework Seed:** Reusable Cypress and Cucumber starter framework: cypressFrameworkSeed.
- **Secret Santa Application:** Bilingual participant management, pairing exclusions, and email notifications using JavaScript, Node.js, HTML, CSS, and Nodemailer: maugapsSecretSanta.
- **Additional projects:** Interactive résumé website, AI-powered D&D Discord assistant, and MERN event and wedding invitation application.

Certification

ISTQB Certified Tester - Foundation Level (CTFL) | May 2019

Education

Information Systems Engineering coursework | Universidad Tecnológica Nacional | Began February 2014; degree not completed.

Languages

Spanish: Native | English: C2 | Italian: A2