

CARLOS JULIO PIRAGUA PÉREZ

QA Automation Engineer | Test Framework Architect

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PROFESSIONAL SUMMARY

QA Automation Engineer with 8 years of experience in test automation across web, APIs, mobile, and .NET components. Specialized in designing and implementing automation frameworks from scratch and integrating them into CI/CD pipelines. Career progression from apprentice to technical lead, with industry experience in banking, aviation, healthcare, gaming, and digital platforms. Builder mindset: focused on creating standards and solutions, not only executing tests.

PROFESSIONAL EXPERIENCE

Test Automation Engineer — Omni.Pro, Bogotá (Colombia) Feb 2025 – Apr 2026

QA team of 5 supporting 15 developers. Testing over Adobe Platform, Adobe DataLayer, APIs, web, and mobile.

- **Built the team's automation framework and testing standards from scratch**, in an environment that was previously 100% manual with no established guidelines.
- **Implemented approximately 1,500 automated tests** in Playwright, executed through a CI/CD pipeline using GitHub Actions and Docker.
- **Reduced testing cycles from months to hours**, shifting the team's perception of automation as a strategic asset.
- **Designed a specialized framework for Adobe DataLayer testing**, addressing a use case with no standard market solution.
- **Technically led 2 team members** and defined the test templates adopted across the rest of the team.
- Built the QA CI/CD infrastructure from scratch using GitHub Actions and Docker.

Test Automation Engineer — Globant, Medellín (Colombia) Feb 2022 – Feb 2025

QA team of 7 across multiple client projects in banking, aviation, and gaming. Automation on web, APIs, .NET DLLs, and mobile.

- **Developed approximately 300 automated tests** across payment systems, flight management platforms, and embedded components for physical machines serving a large end-user base.
- **Automated .NET DLL validation** prior to injection into production components, covering an uncommon QA use case.
- **Proposed and implemented customized frameworks on top of RestAssured**, tailoring API testing to each client's specific requirements.
- **Detected critical bugs on multiple occasions** before production releases, on high-impact commercial products.
- Technically mentored junior QA engineers in automation practices and test design.
- Reassigned twice to new construction-phase projects after delivery completions, due to builder-oriented profile rather than maintenance.

Automation Analyst — Sofka Technologies, Medellín (Colombia) Jun 2021 – Jan 2022

Clients in healthcare and aviation sectors.

- Built customized frameworks for API test automation in Java using Serenity BDD and ScreenPlay pattern.
- Executed functional and non-functional testing with Azure DevOps integration.
- Applied SOLID principles to the design of maintainable and scalable automation suites.

QA Technical Consultant — Sophos Solutions, Medellín (Colombia)

Dec 2020 – Jun 2021

Banking sector, focused on REST and GraphQL APIs.

- Designed and executed automated tests over REST and GraphQL services in banking production environments.
- Automated UI, AS400 services, APIs, and mobile applications using Serenity BDD and ScreenPlay in Java.
- Integrated automation suites with Azure DevOps for continuous execution.

Automation Analyst — Tata Consultancy Services, Medellín (Colombia)

Jun 2018 – Dec 2020

Multiple banking clients: credit cards, loans, account management, and enterprise applications.

- **Contributed to the development of an API orchestrator using TDD methodology**, enabling tests to run in parallel with development and significantly accelerating delivery times.
- Joined as an apprentice and progressed to leading automation across web UI, desktop, REST APIs, and AS400 services.
- Implemented automation using Serenity BDD, ScreenPlay, Java, .NET Core, and NodeJS following SOLID principles.
- Worked with UFT (Unified Functional Testing) and Keyword Driven Testing tools integrated with DevOps platforms.

TECHNICAL SKILLS

Test Automation: Playwright, Selenium, Cypress, Appium, Serenity BDD, ScreenPlay, RestAssured, UFT

Programming Languages: Java, C#, JavaScript, TypeScript, NodeJS, Python, .NET Core

CI/CD & DevOps: GitHub Actions, Azure DevOps, Docker, Git, VSTS

APIs & Backend: REST, GraphQL, AS400, .NET DLLs, Adobe DataLayer, Adobe Platform

Databases: SQL Server, MySQL, Oracle 12c

Methodologies: Scrum, Kanban, BDD (Gherkin), TDD, ISTQB, SOLID Principles

Project Management Tools: Jira, ALM, Quality Center, Maven, Gradle

EDUCATION

Technical Degree in Software Programming — SENA, Medellín (Colombia)

Jan 2018 – Jan 2019

Technical Degree in Commercial & Financial Operations — SENA, Puerto Boyacá (Colombia)

Jan 2015 – Jan 2016

LANGUAGES

Spanish: Native

English: Intermediate (B1–B2) — fluent in technical reading, conversational level improving