

Ricky Martinez

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Professional Summary

Senior QA Engineer with 7+ years of experience designing automation frameworks and integrating CI/CD pipelines to enhance quality assurance processes. Specializes in Python, Selenium, and Cypress, with a successful track record in regression and integration testing for financial and regulated environments. Efficient at collaborating with cross-functional teams to verify, validate, and document high-standard software while maintaining consistency in delivery.

Core Technical Skills

- **Programming Languages:** Python, Java, PHP, JavaScript, Node.js, Perl, React, SQL, Bash, HTML/CSS, TypeScript, Go
- **Automation & Frameworks:** Playwright, Pytest, Selenium, Robot Framework, Cypress
- **Cloud & Infrastructure:** AWS, EC2, S3, Lambda, CloudWatch, Docker, Jenkins, GitHub Actions, Terraform, Kubernetes
- **Databases:** PostgreSQL, MySQL, MongoDB, Redis
- **Messaging & Integrations:** Kafka, Grafana, REST, SOAP APIs
- **Testing Domains:** API, UI, Integration, Regression, V&V
- **Practices:** Agile, TDD, BDD, CI/CD Integration, Secure Coding, Performance Optimization, FDA/Regulatory Documentation, Pseudo code writing, Complex SQL, Full-Stack Development

Professional Experience

MEDIDATA SOLUTIONS

May 2022 - Aug 2025

Senior Software Development Engineer in Test

- Developed and maintained user-facing web applications and scalable backend REST APIs with Python and Java, which improved system reliability and enabled faster feature delivery for the SaaS healthcare platform
- Automated API, UI, and data-validation workflows using Pytest, Playwright, and custom Python utilities, significantly reducing manual regression cycles and increasing release confidence.
- Integrated automated validation into CI/CD pipelines (GitHub Actions, Jenkins), enabling continuous testing, reliable environment promotion, and rapid defect detection across services.
- Implemented design patterns and algorithmic solutions to optimize API performance and reliability, ensuring the delivery of high-performance web services..
- Improved framework scalability and team efficiency by developing reusable fixtures, logging utilities, and test harness components, while mentoring engineers on Pythonic design, CI/CD troubleshooting, and maintainable automation practices.

PERSONAL WEBSITE – RICKYM270.GITHUB.IO

Aug 2025 - Present

Lead QA & Developer

- Designed and deployed a full-stack portfolio platform with a responsive frontend (HTML, CSS, JavaScript, Bootstrap) and Spring Boot REST API hosted on Google Cloud Run, integrating GitHub project data, analytics endpoints, and secure contact workflows.
- Developed and maintained a Playwright automation suite (200+ tests across 30+ spec files) validating UI behavior, REST APIs, accessibility (WCAG), visual regression, and end-to-end user journeys across Chromium, Firefox, and mobile viewports.
- Implemented CI/CD pipelines using GitHub Actions to execute automated tests on pull requests, manage locator and visual snapshot updates, and conditionally deploy the static frontend and backend API based on repository changes.
- Designed and implemented RESTful API endpoints for project metadata, GitHub activity, analytics, and contact services, incorporating CORS policies, global JSON error handling, and OpenAPI documentation to ensure stable integrations and maintainable API contracts.

UPTYCS

Nov 2020 - Nov 2021

Software Engineer

- Developed and maintained scalable backend services in Python and Go, integrating APIs and Bash scripts to enable real-time security analytics, which reduced data processing latency
- Collaborated with product and engineering teams using JIRA to define requirements and delivered new features that improved system throughput by 15%
- Implemented automated testing pipelines with Pytest and CI/CD integration for reliable deployments.
- Enhanced code quality through rigorous code reviews and adoption of best practices across the team.

TRADEWEB

Jun 2016 - Nov 2020

Network Engineer Intern

Jersey City, NJ

- Developed Python and Perl scripts to automate network data extraction and monitoring for a team of network engineers, enabling direct device interaction and reducing their manual workload.
- Supported backend systems that ensured uptime and performance for financial trading infrastructure.

Projects & Highlights

Framework Ownership

- Led CI/CD-integrated Playwright and Pytest architecture that reduced manual regression time by 60%.

Test Data Automation

- Built modular Python scripts for environment setup, data seeding, and result verification.

Release Validation

- Designed reproducible, version-controlled test suites to ensure regulatory audit readiness.

Cross-Functional Leadership

- Partnered with QA, Product, and Engineering to standardize validation documentation.

Education & Leadership

City University of New York, Hunter College
Computer Science

New York, NY