

Javier Meléndez Zacarías

Senior Test Automation Engineer

SUMMARY

Results-driven Senior Test Automation Engineer with 4+ years of experience designing and delivering scalable test frameworks across UI, API, and performance testing domains. Proficient in WebDriverIO, Selenium, REST Assured, and K6, with hands-on expertise building end-to-end automation suites for complex, event-driven systems on AWS. Experienced in integrating AI-assisted tooling to accelerate test case generation and defect analysis, reducing manual effort and improving coverage quality. Skilled in building and maintaining CI/CD pipelines using GitHub Actions, including reusable shared workflows and automated daily test runs. Adept at performance engineering — designing load scenarios at production scale with real-time observability through New Relic dashboards. Strong collaborator in cross-functional, cross-timezone Agile teams with a track record of owning QA from sprint planning through UAT and production release.

TECHNICAL SKILLS

• Agile Methodologies (Scrum, Kanban) • Jira and Jira Portfolio • Confluence • Rally • Java • JavaScript • AWS • Elasticsearch • MySQL • PostgreSQL • Oracle • Bitbucket • gitHub • RESTApi • Postman • RestFull MicroServices • Splunk • Continuous Integration • Continuous Delivery • Automated Testing • Selenium • Cypress • Playwright • WebdriverIO • JMeter • Gatling • K6 • Allure Reports • Python • MCP • Generative AI • Spec-Driven Development • Software testing with AI • GitHub Copilot • Cucumber • Smoke Test • Regression Test • Unit Test • Integration Test • System Test • Acceptance Test • Performance Testing • Page Object Model • Behavior Driven Development • Test Driven Development • Data Driven Development •

SOFT SKILLS

- Attention to detail
- Analytical thinking
- Problem-solving
- Communication
- Collaboration
- Critical thinking
- Adaptability
- Time management
- Accountability
- Continuous learning
- Initiative
- Root cause analysis
- Customer-focused mindset
- Quality ownership

EDUCATION

2017 - 2021 / Universidad Politecnica de San Luis Potosi / Telecommunications and Computer Engineering

Certifications:

- Certified Tester Foundation Level (CTFL) – ISTQB
- Certified Tester, Agile Tester (CTFL-AT) - ISTQB
- Certified Tester Advanced Level Test Automation Engineering (CTAL-TAE) – ISTQB
- AWS Certified Cloud Practitioner
- Postman API Fundamentals Student
- PCAP – Certified Associate in Python Programming
- CPA – C++ Certified Associate Programmer
- Certified Professional Selenium Tester (CPST)
- Microsoft Office Specialist: Microsoft Office Word 2013
- Microsoft Office Specialist: Microsoft Office PowerPoint 2013
- Microsoft Office Specialist: Microsoft Office Excel 2013
- Microsoft Technology Associate: Database Administration Fundamentals
- Microsoft Technology Associate: HTML5 Application Development Fundamentals
- Microsoft Technology Associate: Networking Fundamentals

WORK EXPERIENCE HIGHLIGHTS

March 2024 - Present

Senior Test Automation Engineer — Cox Automotive (Manheim) | EVJ (Electronic Vehicle Jacket) Team

Company: FPT Software

Responsibility:

- Create from scratch Test Automation Solutions.
- Test plan, Test Cases and Test Scenarios creation with generative AI.
- Page Object Model usage to implement Test Automation Frameworks.
- Test Maintenance to guarantee 100% passing score in Allure Reports if tests fail because of changes on Front End and Back End.
- Continuous Integration and Continuous Deployment with GitHub Actions by running workflows during midnight, in every Pull Request and after a branch merge to master to spot any failure during development.
- Test Automation for UI/UX, API, Database during the whole Software Development Life Cycle
- Performance Test during the whole SDLC to align with project performance testing thresholds such as speed, stability, and scalability requirements.
- Collaborate and assist Product Owner to prioritize and refine product backlog, ensuring alignment with product goal and business objectives.

- Prioritize and estimate in Sprint Planning and Backlog refinement to align with product goal ensuring Software Quality.
- Test Development with GitHub Copilot with Claude Sonnet 4.x as AI Agent
- Product Analytics with Log Rocket
- Log analytics with Splunk
- Database testing with MySQL
- Owned and maintained the E2E automation framework with daily CI runs covering UI, API, and data cleanup workflows
- Built and executed automation scripts for complex UI scenarios: auction management CRUD, vehicle jacket sorting/PDF bundles, header navigation, user search, and notification validation
- Wrote and triaged E2E defects, distinguishing false positives from actual bugs after environment changes
- Created test cases using AI tooling, executed them, performed code reviews, and delivered automation coverage for each release
- Designed and built a K6-based load test framework for SQS event pipeline covering 7 scenarios at production-scale volumes (1,000+ VUs, 2,400+ messages/min)
- Integrated New Relic monitoring (StatsD, NRQL dashboards) and HTML report generation for stakeholder visibility
- Maintained and refactored GitHub Actions workflows for daily automation runs, SCA security upgrades, and shared reusable workflow architecture
- Created Flyway database migrations to remove duplicate UUID indexes
- Fixed automation resource cleanup process running in AWS CodeBuild
- Validated WAF suppression requests, reviewed DASH report outcomes, and confirmed environment coverage for security exception submissions
- Participated in UAT cycles, verified acceptance criteria and signed off on production readiness

Skills:

- Test Automation: E2E automation, UI testing, API testing, data-driven testing, test case design, defect triage
- Performance Testing: Load testing, CDC throughput analysis, latency profiling, threshold/SLO definition
- CI/CD: GitHub Actions, shared/reusable workflows, self-hosted runners, cron scheduling, PR gates
- Security QA: SCA scanning, WAF exception validation, dependency auditing
- Database: Schema validation, Flyway migrations, index analysis, smoke testing
- Agile: Sprint planning, Rally (stories, tasks, defects), KTLO, UAT

Technology:

- E2E / UI Automation: WebDriverIO, Selenium
- API Testing: REST Assured
- Performance Testing: K6 (custom build with extensions)
- Languages: JavaScript, Java, Shell/Bash, XML
- Cloud: AWS SQS, AWS SSM Parameter Store, AWS CodeBuild, AWS EC2/S3

- Monitoring: New Relic (StatsD, NRQL, dashboards)
- Containers: Docker, Docker Compose
- CI/CD: GitHub Actions, GitHub Enterprise
- Database: MySQL, Flyway
- Security: SCA (Software Composition Analysis), WAF
- Test Management: Rally, test case authoring, AI-assisted TC generation

October 2023 – January 2024

Test Automation Engineer

Company: Mphasis

Responsibility:

- The project never got off the ground, but I used those three months to learn Go, Selenium with C#, and CI/CD.

Technology:

- Golang, C#, CI/CD

July 2022 – July 2023

Software QA Engineer

Company: Accion Labs

Responsibility:

- Assisted quality team with rollout of new processes, metrics and tools.
- Agile testing, SCRUM as agile methodology and JIRA/Xray as bug test execution tool.
- Selenium WebDriver in Python to write testing automation code for a Cloud Web Service.
- Cucumber Framework as Behavior-Driven Development (BDD) in Agile Software Development.
- REST and SOPA API test automation with Postman.
- Kusto Query Language (KQL) and Structured Query Language (SQL) to perform database calls.
- Manual testing for IoT devices. Hardware testing skills.
- Created documentation such as testing reports, bug reports, test plans and test cases.
- Helped to implement a robust automated regression, lower environment smoke test and production smoke test suites.

Technology:

Embedded systems, Internet of Things, Selenium, Python, Postman, Linux, SQL, KQL, Jira, Azure.

July 2021 – July 2022

Quality Assurance

Company: Fyware

Responsibility:

- Professional English skills due to working with an international team from Germany, Mexico and other countries.
- Agile testing, SCRUM as agile methodology and JIRA as bug tracking tool.

- Used Selenium WebDriver in Python to write testing automation code for a platform.
- Used Postman to create testing automation for a backend API.
- Performance testing using Android Studio, Xcode, JMeter and GTmetrix.
- Develop 400+ test cases for a web platform, an Android/iOS app and a backend API.
- Used Robot Framework to write testing automation code for a website.

Technology:

Selenium, Postman, Python, Augmented Reality, Mobile Testing, Manual testing, JMeter, Robot Framework.