Marco De Jesus

Software Development Engineer in Test | QA Automation Manager

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PROFILE

Experienced Engineering Manager and QA Automation Leader with 14+ years transforming testing efficiency through AI-powered automation. Expert in Cursor AI, Model Context Protocol, and multi-LLM agents, delivering measurable business impact through innovative technology solutions.

Core Competencies:

- Leadership of cross-functional engineering teams (45+ members)
- AI-powered test automation with Cursor AI, MCP, and LLM integration
- Proficient in CI/CD pipelines, TDD/BDD, and QA Automation
- Experience with REST APIs, Web Applications, and Mobile Testing
- Hands-on with Python, Java, C#, Selenium, Appium, Playwright, Rest-Assured
- Strong focus on Data-Driven Testing and Test Framework Architecture

PROFESSIONAL EXPERIENCE

Software QA Automation Manager

Axos Bank | San Diego, California, United States
April 2022 - Present (3 years 9 months)

Technologies: PostBot, Postman Flows, MCP (Python), Ollama (Llama 3.5), Azure OpenAI (GPT-4o), RAG, Cursor AI, Playwright, Model Context Protocol

Key Achievements:

- **Facing a 6-month backlog with a 4-person team**, architected an AI-powered automation system using Cursor AI, Postman Flows, and Model Context Protocol (MCP), transforming API test coverage from 40% to 95% in 4 weeks as a solo engineer, reducing costs by 75% and accelerating releases by 300%
- **To eliminate manual test maintenance**, designed a multi-LLM AI agent system leveraging Ollama (Llama 3.5) and Azure OpenAI (GPT-4o) that dynamically adapts tests based on API contract changes, reducing test update time by 90% and enabling autonomous test evolution
- **Addressing 3-day execution bottlenecks**, implemented comprehensive test automation across Web/Mobile/API platforms using Playwright and MCP, achieving 90% coverage and slashing execution times to 1 hour, enabling daily releases and reducing time-to-market by 97%
- **To reduce infrastructure costs**, deployed on-prem LLM containers (Ollama with Llama 3.5) for secure, domain-specific test case generation, eliminating dependency on external AI services and reducing API costs by $50K annually while maintaining security compliance

Sr. Software Development Engineer in Test

OfferUp | Tlaquepaque, Jalisco, Mexico
July 2021 - March 2022 (9 months)

Technologies: Java, Rest-Assured, Postman, Gradle, JUnit5, Charles Proxy, Git, Appium

Key Achievements:

- **Starting from zero automation**, built an enterprise-grade API test framework using Java, Rest-Assured, and JUnit5, establishing testing standards that reduced API regression time by 70% and enabled continuous integration with daily regression testing
- **Expanding test coverage to mobile platforms**, implemented Appium-based automation for iOS and Android, covering critical user journeys and achieving 85% overall test coverage across web and mobile APIs

- **To elevate team capabilities**, conducted training sessions on coding best practices and refactoring concepts, reducing technical debt by 30% and establishing a culture of code quality

Teacher and Mentor

QA Minds Lab | Guadalajara, Jalisco, Mexico
February 2021 - March 2022 (1 year 2 months)

Key Achievements:

- **To bridge the automation skills gap**, created a comprehensive test automation curriculum using Selenium WebDriver, Java, Maven, and TestNG, covering OOP principles, design patterns, and framework architecture, resulting in 80% of 50+ students securing automation roles within 6 months

Lead Software Test Automation Engineer | Software Engineering Manager

EPAM Systems | Guadalajara, Mexico Metropolitan Area
July 2019 - July 2021 (2 years 1 month)

Key Achievements:

- **Building a high-performing engineering team**, managed full employee life-cycle for 15+ engineers, designed technical development programs, and conducted interviews, improving team technical competency by 40% within the first year
- **To automate desktop application testing**, developed a UI automation framework using WinApp Driver and C# for Microsoft technologies, achieving 80% automation coverage and establishing reusable testing patterns
- **Establishing quality standards**, implemented code review processes focused on clean code and SOLID principles, reducing bug rates by 25% and creating CI/CD pipelines using Azure DevOps that reduced manual deployment time by 60%

Sr. Automation Tester

Cognizant | Zapopan, México
December 2018 - July 2019 (8 months)

Technologies: C#, RestSharp, Selenium WebDriver, Git

Key Achievements:

- **To improve client delivery**, acted as main technical point of contact, trained team members on C# and Git, and implemented comprehensive functional testing processes, ensuring 100% requirement coverage and improving client satisfaction
- **Implementing progressive deployment**, managed release cycles using Canary approach and developed API test automation using RestSharp and UI automation with Selenium WebDriver, achieving 75% API coverage and reducing regression testing time by 50%, resulting in 35% fewer production incidents

EARLIER EXPERIENCE

Software QA Analyst | Herbalife | Tlaquepaque, México | *September 2016 - December 2018*
Designed and implemented test automation frameworks using SpecFlow, C#, and Ruby (Page Object Model, Builder Pattern), increasing automation coverage from 30% to 70%. Served as Scrum Master for cross-location teams, improving velocity by 30% and reducing sprint overruns by 50%. Conducted comprehensive database and API testing, identifying 200+ defects before production.

Sr. QA Analyst | Softtek | Guadalajara Centro, Jalisco, Mexico | *June 2015 - September 2016*
Implemented Software Testing Life Cycle (STLC) methodologies and quality tools (waste elimination, value stream mapping), improving test case effectiveness by 35% and reducing testing cycle time by 25%. Mentored junior analysts, developing 5 team members into mid-level QA professionals.

Software Tester | UST Global | *November 2012 - June 2015*
Led functional, web accessibility, and cross-browser testing initiatives using V-Model methodology, reducing production defects by 40%. Utilized Rational suite tools and accessibility testing frameworks to ensure comprehensive test coverage.

Fullstack Software Developer | Universidad Tecnologica de Leon | *2011 - 2012*
Developed web applications using Java with three-layer architecture, implementing server-side and front-end solutions with Tomcat, JSON, jQuery, and Ajax, achieving 99.5% uptime for critical applications.

TECHNICAL SKILLS

AI & Automation: Cursor AI, Model Context Protocol (MCP), Ollama, Azure OpenAI, GPT-4o, RAG, Postman Flows, PostBot

Test Automation: Selenium WebDriver, Appium, Playwright, Rest-Assured, SpecFlow, TestNG, JUnit, JUnit5, WinApp Driver

Programming: Python, Java, C#, Ruby, SQL

CI/CD & DevOps: Azure DevOps, Jenkins, GitHub Actions, Docker, Git, Gradle, Maven

Methodologies: Agile, Scrum, BDD, TDD, SAFe, Page Object Model, Builder Pattern, Clean Code, SOLID Principles

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CERTIFICATIONS & EDUCATION

Certifications

- **ISTQB Foundation Level Certified** - International Software Testing Qualifications Board
- **SAFe 4 Agilist Certified** - Scaled Agile Framework
- **SCRUM Master Certified** - Agile Project Management
- **Six Sigma Yellow Belt Certified** - Process Improvement

Education

Master's Degree in Administrative Engineering and Quality

Universidad de La Salle Bajío, A.C. | 2013 - 2015

Business Administration and Management, General

Bachelor's Degree in Information Technologies

Universidad Tecnológica de León | 2007 - 2012

Information Technology Engineer

LANGUAGES

- **Español** - Native or Bilingual
- **Inglés** - Native or Bilingual