

YUL OMAR VILLANUEVA

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CAREER SUMMARY

I'm a Senior QA Leader and Lead Software Development Engineer in Test with over 13 years of experience, focusing on the frontier of intelligent automation. My core specialization is moving beyond traditional scripting to architect Agentic QA frameworks. I build autonomous AI agents (utilizing Claude) that think through testing lifecycles by integrating Jira for business context, generating test cases dynamically, and executing them via MCP (Model Context Protocol) and Playwright. Throughout my career across Agile and SAFe enterprise environments, I have scaled frameworks that slashed regression cycles by up to 70%, established high-performing quality organizations, and built stable, self-healing testing ecosystems that empower teams to ship code faster.

CORE COMPETENCIES

- **AI & Agentic Automation:** Architecting AI agents (Claude) to bridge the gap between Jira requirements and execution. Expert in Model Context Protocol (MCP) with Playwright for intelligent, autonomous test execution and automated test case generation.
- **Automation Ecosystems:** 13+ years building and scaling frameworks from scratch using Selenium WebDriver (Java, C#), Appium for cross-platform mobile (iOS/Android), and Playwright. Strong focus on Cucumber (BDD), TDD, and ATDD.
- **Modern DevOps & Orchestration:** Designing seamless CI/CD pipelines within Azure DevOps, Jenkins, and GitHub Actions. Skilled in Maven, Git, and API testing/performance via Postman and JMeter.
- **Strategic Leadership:** Leading QA digital transformations in Agile/SAFe environments. Focus on technical training, rigorous code reviews, and mentoring teams to transition from manual testing to a full automation-first mindset.
- **Data & Integration:** Managing complex test data within Microsoft SQL and integrating disparate platforms (like n8n or custom APIs) to create a unified automation workflow.

PROFESSIONAL EXPERIENCE

Sprout Solutions (*Lead SDET / Acting QA Manager*)

Apr 2024 – Present

- **Leadership & Strategic Management (March 2026 – Present):** Stepped into an acting managerial role, leading a high-performing team of 11 SDETs and 11 QA. I oversee the entire Quality Engineering strategy across the Product Team, ensuring quality is baked into the development lifecycle from day one.

- **Executive Visibility:** Representing the QA organization in L10 leadership meetings, aligning technical testing roadmaps with high-level business goals and reporting on critical quality metrics to executive stakeholders.
- **Modernizing the Stack (Agentic QA):** Currently architecting a next-generation Agentic Framework using Claude and MCP (Model Context Protocol). Moving the needle from simple automation to "Intelligent Testing," integrating Jira with Playwright to autonomously generate and execute test cases based on real-time ticket updates.
- **Technical Impact & Innovation (Apr 2024 – March 2026):** Optimized our Selenium C# framework for Payroll, slashing regression runtime from 17 minutes down to 5 minutes—directly enabling a 3x increase in deployment frequency.
- **Democratizing Quality:** Introduced no-code API testing tools, which cut test development time by 40% and empowered our non-technical QA members to contribute to the automation suite.
- **Cross-Departmental Efficiency:** Extended our automation capabilities to Sales and Customer Advocacy, building custom tools that reduced their manual data preparation time by 80%.
- **AI Adoption:** Championed the use of GitHub Copilot and ChatGPT within the engineering team to streamline code reviews and script generation, significantly shortening our delivery cycles.
- **Infrastructure Stability:** Built and maintained robust CI/CD pipelines in Azure DevOps, ensuring every deployment is guarded by automated smoke tests to prevent regressions in production.

Legadel (*New York, USA | Remote – Founding Automation QA Engineer (Part-Time)*) **Jan 2026 – Present**

- **Founding QA Strategy:** Serving as the initial automation architect for a New York-based project, establishing the automated testing roadmap and selecting core Test Case Management (TCM) tools from the ground up.
- **Framework Architecture:** Building and deploying scalable automation scripts to validate core workflows on the Legadel platform application framework (app.legadelservice.org).
- **Cross-Functional Alignment:** Collaborating closely with remote US-based development teams to integrate robust automated checks, preventing regressions and streamlining early-stage product delivery.

Sprout Solutions (*Senior Software Engineer – Automation Lead & Trainer*) **Sept 2019 – Apr 2024**

- Designed and implemented web and mobile automation frameworks (Java, Python, Selenium, Appium).
- Built regression test packages and integrated in-sprint automation, accelerating release cycles.
- Trained and mentored QA engineers, significantly increasing automation adoption.
- Created mobile automation pipeline reducing manual regression efforts by 40%.
- Standardized automation coding practices, reducing script maintenance time.
- Acted as QA lead for Product Increment Planning (PIP) sessions.

Capgemini Philippines (*Associate Consultant – Automation Tester & Trainer*) **Jul 2018 – Jul 2019**

- Developed and maintained automated scripts from functional test cases.
- Conducted Selenium training sessions for employees.
- Built automation frameworks that enhanced testing efficiency.

Accenture (*Software Engineer Testing Analyst – Automation Test Lead*)

Feb 2015 – Jul 2018

- Led in-sprint automation initiatives in Agile teams, increasing automation adoption.
- Established automation guidelines and coding standards.
- Performed defect triage and coordinated with developers for faster resolution.

Jocker's Foods Industries (*IT System Management Support*)

Mar 2013 – Apr 2014

- Provided IT system support and implemented biometric systems for timekeeping.

EDUCATION

Bachelor of Science in Computer Engineering

2007 – 2013

Bulacan State University

CERTIFICATIONS & TRAINING

- Certified Tester Foundation Level (ISTQB)
- Agile Software Development & SAFe Frameworks
- Selenium Automation Training & Advanced Framework Architecture
- Python Fundamentals & Scripting
- Java Cross-Skill Training
- JMeter & Performance Testing
- SQL Management & Advanced Data Validation