
JAN MARNER E. VERASTIGUE

Solutions Architect | QA Lead | Test Automation & Quality Engineering

PROFESSIONAL SUMMARY

Solutions Architect and QA Lead specializing in enterprise quality strategy, shift-left test automation, performance engineering, and quality engineering platforms for regulated industries, including banking, telecommunications, stock exchange, and gaming. Champions TDD, BDD, and the test pyramid as foundations for sustainable delivery. 15+ years designing end-to-end architectures spanning web, mobile, API, cloud, and on-prem infrastructure, with a track record of leading cross-functional teams and defining technical roadmaps. Currently leading Agentic AI integration into automation frameworks to drive self-healing, autonomous test generation, and intelligent failure triage. Tricentis Tosca certified (AE1, AS1, AS2, TDS1, TDS2); deep hands-on expertise across Playwright, Selenium, Appium, UFT, LoadRunner, and JMeter.

CORE COMPETENCIES

- Solution Architecture, System Design & Technical Roadmapping
- Quality Strategy, Test Automation Strategy & Framework Design
- Performance, Load & Stress Testing
- CI/CD Pipeline Integration (Jenkins, GitLab)
- Shift-Left Quality, TDD, BDD & Test Pyramid Adoption
- Banking, Telecommunications, Stock Exchange & Gaming Domain QA
- Team Leadership, Stakeholder Engagement & Executive Reporting
- Delivery Metrics: DORA (Lead Time, Deployment Frequency, MTTR, Change Failure Rate)
- Mobile, Web, API, Mainframe & FIX Protocol Testing
- Agentic AI & LLM-Driven Test Engineering

TECHNICAL SKILLS

Frameworks Designed & Owned: Playwright + TypeScript, Tricentis Tosca, Selenium + Serenity, UFT, Appium

Performance & Resilience Engineering: LoadRunner, Performance Center, JMeter; load, stress, capacity, failover & DR scenario design

Agentic AI & Intelligent Automation: GitHub Copilot, Claude Code, LLM-driven test generation, self-healing locators, autonomous failure triage in Playwright

CI/CD & DevOps Toolchain: Jenkins, GitLab CI, Bitbucket, Git, Zephyr, JIRA, Confluence

API, Protocol & Contract Testing: REST, Swagger, Postman, FIX, Chronicle FIX, XMPP, Mainframe, VeriFIX, service contract validation

Cloud & Infrastructure: AWS, Alibaba Cloud, Active Directory, Cisco IOS, Cisco ASA, Avaya PBX, bare-metal provisioning

Languages & Data: Python, PHP, Laravel, React JS, SQL, SQLite, DocumentDB

Security & Compliance Testing: OWASP Top 10 hardening, regulated-industry compliance validation (banking, gaming, exchange)

PROFESSIONAL EXPERIENCE

GienTech Singapore, Solutions Architect

December 2015 – Present

Project 1: Stock Exchange Client

Platform: Playwright, TypeScript

- Architected a modern end-to-end automation framework using Playwright and TypeScript to replace legacy tooling and accelerate release cycles.
- Designed reusable page-object models and fixture patterns to maximize test maintainability and minimize duplication, with parallel execution and cross-browser coverage across Chromium, WebKit, and Firefox.
- Integrated Playwright suites into GitLab CI for headless execution on every pull request, with automated trace/video artifacts for failure triage.
- Mentored QA engineers on async/await patterns, network mocking, and visual regression strategies in Playwright.
- Pioneered Agentic AI integration into the Playwright framework using GitHub Copilot to extract test steps directly from legacy test scripts (cutting ~60% of the effort versus manually reverse-engineering each script), and to support self-healing locators and intelligent failure triage going forward.

Project 2: Gaming Client

Platform: Tricentis Tosca

- Led the test automation strategy for a regulated gaming platform, defining module structure, reusable test steps, and risk-based regression coverage.
- Built Tosca automation suites covering croupier-facing web flows, back-office configuration tools, and membership management systems.
- Established data-driven test execution with Tosca Test Data Management (TDM) and Data Excel Engine (DEX) to validate jackpot, bonus, and compliance scenarios across multiple jurisdictions.

Project 3: Stock Exchange Client

Platform: Tricentis Tosca

- Defined and implemented the overall test automation strategy, including folder structure, test configuration, and test data management guidelines.
- Led and mentored a team of test automation engineers, providing technical guidance through code reviews and partnering with product teams to translate requirements into comprehensive automated test coverage.
- Ensured availability and consistency of test data across all environments.
- Delivered automated coverage for over 8,000 test cases, converting a large manual regression suite into a maintainable Tosca automation portfolio.

Project 4: Stock Exchange Client

Platform: JMeter, Non-Functional Testing

- Designed, developed, and executed performance test plans covering load, stress, and capacity scenarios.
- Simulated failure scenarios to assess system reliability, availability, and recovery capabilities under degraded conditions.
- Coordinated with infrastructure and operations teams to provision test environments that accurately reflected production.
- Analyzed results and delivered actionable performance reports and tuning recommendations to stakeholders.
- Automated and orchestrated ~1,000 performance test scenarios end-to-end, cutting execution effort by an estimated ~75% versus manual runs and enabling repeatable, on-demand performance regression cycles.

Project 5: Banking Client

Platform: Selenium, Appium, UFT

- Set up the automation framework and authored the initial suite of automated test cases.
- Conducted extensive research on the banking domain through knowledge bases and Confluence to ensure domain accuracy.
- Enforced project best practices, naming conventions, and tagging standards across the team.
- Integrated Serenity automation results into JIRA via Zephyr for unified issue and execution tracking.
- Used Selenium for web, Appium for mobile, and UFT for Windows applications; configured Jenkins pipelines for scheduled and on-demand runs.
- Leveraged Perfecto for multi-device mobile test automation at scale.
- Partially automated the team's daily health-check routines, reclaiming several engineer-hours per day and shifting focus from repetitive verification to deeper exploratory and edge-case testing.

Project 6: Banking Client

Platform: LoadRunner, Performance Center

- Collaborated directly with client stakeholders to design performance tests aligned to business requirements.
- Identified mission-critical business processes and modeled them into realistic load scenarios.
- Engineered workarounds for corporate network restrictions to enable end-to-end performance validation.
- Produced layered reports tailored to technical, managerial, and executive audiences.

Project 7: Telco Client

Platform: Selenium, UFT, Appium

- Core team member of the in-house OmniTest tool supporting test management and reporting across the QA organization.
- Developed and customized OmniTest to streamline test data preparation and execution workflows.
- Designed, scripted, and executed regression suites covering Siebel CRM interfaces and supporting APIs.
- Implemented predictive object identification for script resilience, performed mobile testing with Appium, and handled API design / verification using Swagger and Postman.

Project 8: Pactera (GienTech) R&D

Platform: Laravel, Selenium, UFT, Tosca

- Architected optimal Test Case and Step reusability structures to maximize automation ROI across multiple projects.
- Implemented CI/CD pipelines integrating GitLab webhooks with Jenkins to trigger automated regression packs on commit.
- Leveraged voice recognition technology to enable hands-free test case triggering, an unconventional input method for QA workflows.
- Conducted security testing against OWASP Top 10 vulnerabilities to harden delivered solutions.
- Owned end-to-end development scaffolding: bare-metal server provisioning, version control, disaster recovery, Active Directory, web services, and server monitoring.

Project 9: Educational Institute

Platform: MIS / Network Infrastructure

- Procured and managed network hardware: 40+ Cisco Wireless APs, core Cisco router (IOS), and Cisco ASA firewall.
- Designed segmented network topologies for Administration, Faculty, Students, and Guest tiers.

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- Implemented load balancing and failover configurations for mission-critical academic systems.
 - Led disaster recovery planning, documentation, and Active Directory domain management.
 - Configured Avaya PBX systems and maintained academic systems and the institutional marketing website.

EDUCATION

Bachelor of Science in Computer Science

Systems Technology Institute, Southwoods, Philippines

Graduated 2008

CERTIFICATIONS

Tricentis Tosca

- Automation Engineer L1 (AE1)
- Automation Specialist L1 & L2 (AS1, AS2)
- Test Data Specialist L1 & L2 (TDS1, TDS2)