

Sreenivasan Sivakumar

QA & Test Automation Engineer

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SUMMARY

SDET with 4 years in digital signage at XOGO. In production: Playwright with TypeScript (3 years) and Cypress with JavaScript (1 year) in Azure DevOps CI, plus API, SQL and manual device-matrix testing. Built the automation framework from zero and co-own the release quality gate. Project experience in Selenium (Java), Python, Docker, Jenkins, GitHub Actions and Kubernetes.

EXPERIENCE

QA Engineer I | XOGO Digital Signage | Kochi, India | September 2022 – Present

- Built the automation framework from zero in Cypress (JavaScript) on Azure DevOps (Sep 2022 – Jun 2023). Researched alternatives, presented my findings to leadership and led the migration to Playwright (TypeScript) for WebKit coverage and cleaner CI.
- Grew the Playwright suite to ~234 tests (~104 UI, ~130 API), running in ~35 minutes; release regression went from ~3 days to ~1 day.
- Cut the per-run flake rate from ~5% to ~3% by fixing root causes in unstable UI specs (~45 down to ~15) instead of adding retries.
- Backend API testing in Playwright with schema validation, plus a separate ~170-test Postman/Bruno suite. SQL (MS SQL Server) checks on backend data; performance testing with JMeter.
- Co-own the release quality gate as one of two go/no-go owners. Signed off 35+ production releases across the web manager, API and player apps (Android, iOS, Windows, Fire OS).
- Own manual and exploratory testing across the device matrix: Android phones and tablets (including XOGO hardware), iOS, Windows UWP, Amazon Fire TV Stick 4K and Signage Stick, Chromecast and Raspberry Pi 4B. Introduced Android automation with ADB.
- Accessibility (WCAG) and visual regression checks. Shift-left: review Figma designs and work with product and dev to shape acceptance criteria for authentication, billing and access control.
- Onboarded and mentored a second automation engineer, set the team's test standards and review automation PRs.

PROJECTS

Nithyakarma Quality Lab – <https://github.com/HunterSreeni/nithyakarma-quality-lab>

Same 39 E2E test cases in Playwright (TypeScript) and Selenium (Java + TestNG) against the live app, run in GitHub Actions with a published results dashboard. Dependency-ordered test execution, and event-driven waits instead of polling (~533 ms to ~228 ms per save).

Nithyakarma Delivery Pipeline – <https://github.com/HunterSreeni/nithyakarma-delivery-pipeline>

Java + Selenium + REST Assured suite run through a delivery pipeline: Docker image, Kubernetes Job on kind with a Chrome sidecar, and a parameterised Jenkins pipeline. WebDriver BiDi for network waits and request interception.

Nithyakarma – <https://nithyakarma.org>

A daily-ritual tracker that displays day-to-day information from astrology calculations. React + Vite PWA on Supabase, packaged for Android via Capacitor and released on Google Play. GitHub Actions pipeline for gated releases that runs automated tests before every release.

Steady – GoogleHack2Skill Prompt Wars: Kerala

GenAI powered substance abuse recovery companion application built solo in one hackathon sprint with a full end-to-end test suite, not just a demo. #6 on the leaderboard, achieved 4 bonus rewards.

SKILLS

Test Automation – Playwright (TypeScript), Cypress (JavaScript), API testing (Playwright, Postman, Bruno), JMeter, Page Object Model, Visual Regression, Accessibility (WCAG), Manual & Exploratory Testing, Device-Matrix Testing

CI/CD & Tooling – Azure DevOps, Git/GitHub, Agile/Scrum, Figma (design review)

Languages & Data – TypeScript, JavaScript, SQL (MS SQL Server)

Platforms – Android/ADB, iOS, Windows, Fire OS, Shell/Linux, PowerShell

Project experience – Selenium WebDriver + TestNG (Java), REST Assured, Python, Docker, Jenkins, GitHub Actions, Kubernetes, React, Vue, Supabase

AI tools – Claude Code, MCP, Codex, Ollama, Gemini

CERTIFICATIONS

- DevOps Mastery: Jenkins, Kubernetes, Docker & ArgoCD, Udemy (October 2026)
- Google Cloud Gen AI Academy APAC 2026 – Cohort 3, Google Cloud x Hack2Skill (September 2026)
- Claude Code and Claude 101, Anthropic (July 2026)
- Jr Penetration Tester, TryHackMe (September 2025)
- Test Automation Professional Certification, LambdaTest [now TestMu] (2023)

EDUCATION

Master of Science, Materials Engineering – University of Miskolc, Hungary, September 2019 – July 2021

Bachelor of Engineering, Mechanical Engineering – Sriram Engineering College, Thiruvallur, August 2013 – April 2017