

Piyush Sinha

SDET: Playwright and TypeScript test automation for web apps and APIs

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Summary

SDET with 4.5+ years of building Playwright and TypeScript automation frameworks for web apps and APIs. Migrated a legacy Selenium suite to Playwright, cutting regression runs from 4 hours to 1.5 hours and flaky failures by about 55%. Experienced with Jenkins and GitHub Actions pipelines, AWS, and AI-assisted testing with Playwright MCP and GitHub Copilot. Building backend skills in Java and Spring Boot.

Skills

Test automation	Playwright, TypeScript, JavaScript, Cucumber (BDD), API testing (APIRequestContext), Page Object Model, accessibility testing (axe), visual regression, SoapUI
AI-assisted testing	Playwright MCP, GitHub Copilot, LLM-assisted test generation
CI/CD and cloud	Jenkins, GitHub Actions, AWS (Lambda, Step Functions), Docker, Cloudflare Pages
Backend and data	Java, Spring Boot, Spring Security, REST APIs, SQL, MySQL, Redis, Python
Tools	Git, GitHub, Rally

Experience

SDET, Aumni Techworks

Jul 2026 – Present

Pune

- Automate end-to-end web-app testing with Playwright and TypeScript in a Playwright-Cucumber (BDD) framework.
- Write test scenarios as Gherkin feature files backed by reusable TypeScript step definitions, so each test reads as a plain-language acceptance criterion.
- Automate API tests alongside the UI journeys, checking the service layer as well as what the user sees.

QA Automation Engineer (SDET), Cognizant

Jan 2022 – Jul 2026

Pune

Legacy migration platform

- Migrated legacy Selenium frameworks to a Playwright and TypeScript framework with page objects, custom fixtures, hooks, reusable utility layers, environment configuration and APIRequestContext.
- Cut regression execution time by 60% (4 hours to 1.5 hours) by running Playwright with parallel workers in Jenkins CI/CD.
- Reduced flaky failures by about 55% with auto-waiting, better locator strategies, trace viewer debugging and reusable authentication state.
- Replaced repeated UI logins with API-driven authentication and storage state reuse, and combined UI and API validation, catching about 35% more defects end to end.

Playwright, TypeScript, APIRequestContext, Jenkins, AWS, GitHub

Payment application microservices validation

- Built a Playwright and TypeScript framework that combines API and UI validation for payment authorisation, reconciliation, settlement, rollback and negative scenarios, increasing business-scenario coverage by about 35%.
- Automated validation of AWS Lambda functions and Step Functions workflows inside Jenkins pipelines.
- Built a Python and Rally integration that removed about 6 hours of manual reporting per sprint (about 80%).
- Used GitHub Copilot and LLM-assisted generation for scenarios, locators and assertions, speeding up automation development by about 30%.

Playwright, TypeScript, APIRequestContext, AWS Lambda, Step Functions, Jenkins, Python, SoapUI

Enterprise insurance platform

- Automated quote-to-bind, policy administration, underwriting and claims workflows with reusable page objects, fixtures, hooks and helper utilities.

- Integrated Playwright MCP (Model Context Protocol) with AI-assisted testing, making test generation and debugging about 25% faster.
- Achieved about 98% regression pass consistency across 80+ scenarios with trace viewer debugging, storage state, auto-waiting, parallel runs and combined UI and API checks.

Playwright, TypeScript, Playwright MCP, GitHub Copilot, API testing, SQL, Rally, Jenkins

Projects

Portfolio with gated, publicly tested releases

Every change deploys to a preview and runs the full Playwright suite (end-to-end, axe accessibility, visual regression in Docker and API tests) in Chromium, Firefox, WebKit and a mobile viewport. Only a passing build is promoted to production, and every run's report is published to a public dashboard.

Astro, TypeScript, Tailwind CSS, Playwright, GitHub Actions, Cloudflare Pages

Real-time multiplayer chess

A WebSocket server pairs players and validates every move and turn with chess.js before syncing the board to both players; React frontend.

TypeScript, React, Node.js, WebSockets, Tailwind CSS

Spring Boot services and low-level designs

An auth service (BCrypt, JWT sessions), a product catalogue (MySQL, Flyway, Redis caching, OAuth2 resource server) and a Stripe payment-link service behind a gateway interface, plus low-level designs of an expense splitter, a parking lot and a ticket-booking system.

Java, Spring Boot, Spring Security, MySQL, Redis, Stripe

Certifications

AWS Certified Solutions Architect – Associate	2026
Scaler: Java assessment	2025
Scaler: Databases and SQL assessment	2024
Scaler: Data Structures and Algorithms assessment	2023

Education

Scaler, Full Stack Development program	In progress
BBA, Rashtrasant Tukadoji Maharaj	2012 – 2016
Nagpur University	

Earlier experience

Customer service associate, Amazon	2018 – 2022
Development Center, Pune	
Hospitality supervisor, Nagpur	2015 – 2018