

Pratik Sardar

Staff SDET / Senior Quality Engineer | Test-Automation Architecture · AI-Assisted Testing · Distributed Systems

Quality Engineering leader and hands-on SDET with 12+ years architecting and scaling test automation for large-scale distributed systems across logistics, enterprise hardware, and healthtech. Designs scalable, reusable frameworks across backend, API, and frontend; owns end-to-end test strategy from coverage matrices to release sign-offs; and embeds a quality-first culture through CI/CD quality gates, performance and security testing, and mentorship. Early, hands-on adopter of AI-assisted testing—custom MCP servers, AI-driven test generation, and ML-model test strategy—to compress test-authoring time and accelerate release velocity. Two granted US patents.

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Experience

Staff SDET / QA Engineering Manager at Loop Health

August 2023 - Present

- Architected the company-wide automation platform across backend, REST APIs, and frontend (Java + Selenium/Appium/REST Assured/TestNG; TypeScript + Playwright for E2E), adopted as the standard for all product lines and integration suites.
- Pioneered AI-assisted testing across engineering: built custom MCP servers and agent configurations that give coding agents full context over the codebase, Jira, Confluence, and docs, and wove AI test-case generation into the dev workflow—cutting test-authoring time roughly in half on new feature work.
- Designed a Tesseract-OCR hybrid validation framework for data-integrity testing of insurance and benefits-redemption flows, asserting on rendered documents/e-cards that conventional UI/API checks cannot reach.
- Owned end-to-end test strategy—coverage matrices, defect scope, and release sign-offs—and introduced mandatory pre-PR checks and automation gates, materially reducing escape defects and lifting release reliability.
- Built CI/CD pipelines and quality gates (GitHub Actions) on GCP, shortening the release cycle and protecting SLAs on a SOC 2-certified platform.
- Validated complex insurance and benefits-redemption logic in automation suites, catching high-cost escape defects before production and preventing significant revenue leakage.
- Mentored QA engineers and championed a quality-first culture, removing roadblocks to improve release velocity across squads.

SDET at Locus.sh

June 2021 - July 2023

- Led the SDET function across the core product and platform lines, architecting automation suites for large-scale, distributed route-optimization systems serving enterprise logistics customers.
- Designed automation frameworks and benchmarked multiple route-optimization engines for correctness and performance, surfacing regressions before release.
- Built CI/CD pipelines and observability for code coverage and robust, repeatable deployments.

Skills

Languages

Java, Python, JavaScript, TypeScript, SQL, Go, Rust

Blockchain

Solidity, Smart Contracts, Foundry, Ethereum, web3.js, Cairo

Test Automation & Frameworks

Selenium, Playwright, Appium, TestNG, JUnit, REST Assured, Postman, Cypress, Robot Framework, JMeter, Gatling

CI/CD, Cloud & Observability

GitHub Actions, Jenkins, GitLab CI, Docker, Kubernetes, GCP, AWS, Git, Metabase, Datadog

AI-Assisted Testing

MCP Servers, AI Test Generation, Claude Code / Coding Agents, Agentic Test Workflows, Healenium (self-healing), Applitools (visual AI), Keploy, Playwright MCP, ML-Model Test Strategy, Tesseract OCR Validation

Specialties & Security

API & Contract Testing, Performance Testing, Security Testing, OWASP / Burp Suite, Distributed Systems Testing, Kafka, Test Strategy & Coverage Matrices, CI/CD Quality Gates

Patents

Method of Securing a Data Capture

Session of a Portable Data Capture Device

August 2018

Method to deduce post-active period for load

August 2022

Projects

PooP Monsters

Not only a gamified lifestyle web3 dapp but also a gateway for other Bio Desci projects

- Mentored peers within and across teams, raising testing rigor and cross-functional quality ownership.

Senior Software Engineer in Test at Zebra Technologies Bengaluru, India
April 2020 - June 2021

- Designed and developed functional and non-functional automation suites for SmartPack.
- Implemented performance tests for auto-scaling systems and built automation across Kafka, UI, and RESTful APIs.
- Set up alerting, logging, and monitoring using open-source observability tooling.

Senior Test Engineer at Carlson Wagonlit Travel (CWT)
August 2018 - March 2020

- Designed and tested functional and non-functional behavior for a large travel-repository system.
- Implemented logging, monitoring, and alerting tooling to improve production observability.

Software Test Engineer at Zebra Technologies (Motorola Solutions)
Bengaluru, India
March 2014 -July 2018

- Executed functional, regression, and integration testing for enterprise data-capture products; contributed to test automation and co-invented a patented data-capture security method (US20180027208A1).

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Regen Bazaar

Co-built a blockchain platform tokenizing real-world NGO impact; led smart-contract testing and CI for Solidity/Foundry pipelines.

W3 Split

Web3 expense-splitting dApp; built and tested smart-contract and frontend flows.

Spitfire

AI-assisted video editor built on a custom MCP server; auto-clips and reformats long-form video into short-form reels.

Volunteering

Director — The Phoenix Guild (TPG)
June 2024 - Present

Education

BMS College of Engineering
B.E., Computer Science & Technology
CGPA 8.05 Aug 2009 – Jun 2013