DIPENDRA DABHI

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Senior SDET • QA Automation Architect • Playwright & TypeScript • CI/CD Quality Engineering • AI-Assisted Testing

PROFESSIONAL SUMMARY

Senior SDET and QA Automation Architect with 5+ years building enterprise-grade test automation frameworks, CI/CD quality pipelines, and end-to-end quality assurance across Agile/SDLC environments. Expert in **Playwright, TypeScript, Selenium, Cypress,** and **Appium** — covering E2E, UI, API, regression, and cross-browser testing across web, mobile, and microservices architectures.

Delivered **83% regression runtime reduction, $200K+ annual cost savings, 20x automation velocity gain,** and **99%+ release success rate** across semiconductor and healthcare SaaS environments. ISTQB-certified. Anthropic-certified. Proven track record delivering across cross-border distributed teams. Available for immediate **B2B global contracting via DKD Systems** — zero visa or compliance friction for international clients.

CORE TECHNICAL SKILLS

Test Automation Frameworks:
Playwright Test (Expert), Fixtures, APIRequestContext, Trace Viewer, Network Interception, Browser Contexts, Selenium WebDriver, Cypress, Appium, Eggplant Functional/AI, Robot Framework, TestNG, JUnit, pytest, Jest, WebdriverIO

AI-Assisted Quality Engineering:
LLM-assisted Test Generation, GitHub Copilot, Cursor, Prompt Engineering, MCP-enabled Workflows, Synthetic Test Data, AI Root Cause Analysis

Programming Languages:
TypeScript (Advanced), Python (Advanced), JavaScript (Advanced), Java (Intermediate), SQL, Bash/Shell

CI/CD & DevOps:
Git, GitHub, GitLab, Jenkins, GitHub Actions, GitLab CI, CircleCI, Azure DevOps, Docker, Kubernetes, Terraform, Infrastructure as Code

API & Cloud Testing:
REST Assured, Postman, Newman, GraphQL, JSON Schema, OAuth, JWT, Microservices Testing, AWS (EC2, Lambda, S3), Azure, GCP

Performance Testing:
k6, JMeter, Gatling, Locust, Load/Stress/Spike Testing, Quality Gates

Observability & Monitoring:
Allure, Grafana, Kibana, OpenTelemetry, DORA Metrics

QA Methodologies:
BDD/TDD, Cucumber, SpecFlow, Shift-Left Testing, Risk-Based Testing, POM, Testing Pyramid, Agile/Scrum, SDLC/STLC, Accessibility Testing, WCAG, axe-core

PROFESSIONAL EXPERIENCE

Senior SDET / QA Automation Architect — Radixweb
Dec 2025 – Present

On-site, Ahmedabad • US Healthcare SaaS Client • 100K+ active users • Sole SDET

- Built a production-grade Playwright + TypeScript automation framework from scratch — POM architecture, custom fixtures, REST/GraphQL API mocking, visual regression, and parallel sharding — establishing the E2E quality standard across 5 product modules.
- Cut regression runtime by **83%** (4 hrs → 45 min) through parallel test sharding and GitHub Actions CI/CD integration, enabling same-day release feedback across all environments.
- Eliminated **60%+** of pre-existing flaky tests by redesigning locator strategies, implementing advanced wait patterns, and enforcing strict test isolation — restoring CI quality gates.
- Achieved **95% automated coverage** of critical user workflows while reducing brittle E2E tests by 30% through risk-based prioritisation and testing pyramid strategy.
- Orchestrated test strategy and cross-border release pipelines, interfacing directly with **US-based Product Managers** across EST/IST time zones — strengthening SDLC visibility.
- Scaled test coverage by **25%** with no headcount increase via MCP-enabled automation and LLM-aided test generation (Cursor, GitHub Copilot, Claude).

SDET Engineer — VOLANSYS Technologies (ACL Digital)
Jul 2024 – Nov 2025

Healthcare Data Analytics • Real-time Patient Data • Multi-hospital Systems

- Designed a BDD-driven automation framework (Cucumber + Selenium + Java) serving as the regression backbone for 3 active release trains — reducing test maintenance overhead by **35%**.
- Delivered **$200K+** in annual cost savings by replacing manual QA with CI/CD-deployed automated suites (Jenkins + Docker), cutting manual effort by 40% and accelerating release throughput.
- Streamlined regression cycles from **8 days to weekly** via multi-layer automation across Cypress, Appium, and REST Assured — enabling a 4x improvement in release cadence.

- Maintained **99%+ release success rate** across 20+ consecutive production deployments through quality gates (Allure, Grafana, Kibana). Mentored 3 junior QA engineers — boosting team coverage output by **30%** within 2 sprints.

R&D Engineer – Test Automation — Keysight Technologies May 2021 – Jul 2024

EDA Semiconductor Software (ADS, IC-CAP) • 50+ Engineers across 4 Countries

- Pioneered AI-powered automation using Eggplant Functional/AI — achieving a **20x improvement in execution velocity** by compressing 7-day manual regression cycles into daily automated builds.
- Standardised QA practices across **3 product teams in 4 countries** by engineering a Python + Jenkins framework — enabling 50+ engineers to run continuous testing without additional headcount.
- Spearheaded a JMeter + k6 + Python performance suite that prevented an estimated **$2M+ in production rollback costs** by catching critical memory leaks and CPU bottlenecks pre-release.
- Reduced organisation-wide manual testing effort by **70%** through centralised infrastructure. Accelerated release cadence from **weekly to daily** via CI/CD quality gate governance. Mentored 2 junior SDETs — both promoted within 12 months.

OPEN SOURCE & THOUGHT LEADERSHIP

Playwright Enterprise Automation Framework

- Open-source, production-ready Playwright + TypeScript framework featuring layered POM architecture, API mocking, parallel execution, visual regression testing, and reusable CI/CD pipeline templates.

Technical Writing | Medium

- Published articles on automation architecture, flaky test mitigation, regression optimisation, and modern QA engineering practices.

EDUCATION

M.Tech — Computer Science & Engineering 2020 – 2022

Nirma University • CGPA: 8.0 / 10.0

B.E. — Computer Engineering 2016 – 2019

L.J.I.E.T (GTU) • CGPA: 8.69 / 10.0

PUBLICATIONS

Dabhi, D., Ukani, V., Mehta, S.

GUI Testing using AI Automation Framework

GRENZE International Journal of Engineering and Technology (GIJET), Volume 8, Issue 2, June 2022

Publication link available upon request.

- Co-authored peer-reviewed research on AI-driven GUI test automation using Eggplant Functional and SenseTalk — leveraging visual feedback, widget detection, and GUI segmentation to improve automated test accuracy and reduce manual testing effort.
- Explored continuous AI-driven testing workflows for automated GUI validation and end-to-end user journey simulation.

HONORS & ACHIEVEMENTS

BrowserStack Breakpoint 2026 — Global Leaderboard Winner (1st Rank) • *May 2026*

- Secured 1st Rank on the official Breakpoint 2026 leaderboard organised by BrowserStack.
- Selected for public recognition by BrowserStack for excellence in software testing, test automation, debugging, and quality engineering challenges.

CERTIFICATIONS

- **ISTQB Certified Tester — Foundation Level (CTFL)** | International Software Testing Qualifications Board
- **Playwright 101 — Test Automation Foundations** | TestMu AI
- **Playwright 102 — Advanced Automation Engineering** | TestMu AI
- **Claude 101** | Anthropic — AI fundamentals, Claude API, responsible AI engineering
- **AI Fluency: Framework & Foundations** | Anthropic & University College Cork (UCC)
- **ChatGPT Prompt Engineering for Developers** | DeepLearning.AI

ADDITIONAL INFORMATION

Engagement Model:	B2B global contracting via DKD Systems (dkdsystems.com) — immediate availability, frictionless onboarding for international clients (Deel / Remote / Wise)
Work Model:	Remote-first • Open to 100% remote roles globally • Flexible across US / EU / APAC time zones
Availability:	Immediate • 2-week notice negotiable
Languages:	English (Professional) • Hindi (Native) • Gujarati (Native)
Focus Areas:	QA Automation • Test Automation Framework Development • CI/CD Quality Engineering • API Testing • AI-assisted Testing