MAYUR DILIPSING PATIL

Senior SDET / QA Architect · Test Automation, Performance & AI-Assisted Quality Engineering

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SUMMARY

Senior SDET and QA Architect with 10+ years designing test automation, performance and quality platforms for regulated financial systems at Barclays, Western Union and TCS. Hands-on engineer in TypeScript, Java and Python who builds frameworks and developer tooling from scratch (Playwright, Karate, Gatling, MCP servers), not just tests. Cut regression cycles 85%, migrated a 100+ spec suite to Playwright, and introduced an AI-driven development lifecycle (ADLC) that generates tests and audit evidence with Claude Code agents. Drive test strategy, estimation and release validation with distributed UK–India teams.

CORE SKILLS

Languages	TypeScript / JavaScript (Node, ESM), Java, Python, C#, SQL
Test automation	Playwright, playwright-bdd, Cucumber, SpecFlow, Karate, Rest Assured, WebdriverIO, Selenium Grid, Appium, TestNG, JUnit, pytest
Performance	Gatling, Karate-Gatling, LoadRunner, JMeter, HAR-based flow recording
Backend & data	REST APIs, Spring Boot microservices, .NET, Oracle, MSSQL, contract testing, test-data generation, Word/PDF/Excel report verification
AI-assisted (ADLC)	Claude Code (agents, skills, plugins), GitHub Copilot, GitLab Duo, MCP servers and integrations (Jira, Confluence, GitLab), LLM-driven test generation
DevOps & delivery	GitLab CI, Jenkins, TeamCity, Docker, OpenShift, AWS, Maven/Gradle; test strategy, estimation, risk-based planning, SAFe, mentoring

EXPERIENCE

AVP, Product Test Engineer | Barclays, Pune — *Mar 2021 – Present*

- Senior test engineer on investment-banking regulatory reporting: FCA CASS client-money reporting (CMA team) and UK, Hong Kong and US large-holdings reporting systems (Spring Boot microservices, Oracle/MSSQL); drive test strategy, estimation and release validation across SIT, UAT and pre-prod.
- Architected a parallel-execution automation platform that cut regression from 6 h to 45 min (85%) and enabled same-day release-candidate validation across all environments.
- Built the team's Playwright + TypeScript BDD framework (page objects, data-grid helpers, environment configs, DB fixtures, CI templates), now the team standard; led migration of a 100+ spec Protractor suite to Playwright/ESM on a 12-week plan with no loss of coverage.
- Introduced an AI-driven development lifecycle (ADLC) for QA: Claude Code agents integrated with Jira, Confluence and GitLab generate test cases and runtime test data from source repos and produce rule-level traceability evidence accepted by audit, replacing manual test design for new reports.
- Built reusable reconciliation utilities that validate millions of records in hours across AWS Athena, Oracle and MSSQL and recompute expected results independently.
- Built the team's engineering toolkit: environment-preparation utilities, containerised test execution, automated complex component tests, database and application performance-monitoring scripts, and a story-to-test pipeline (ADLC) that generates tests from Jira stories and syncs results to Xray.
- Delivered a reusable Karate-Gatling performance framework with Swagger-driven test generation and HAR flow recording, designed for reuse across teams.
- Mentor QA engineers and developers on Playwright, Karate and AI-assisted testing; review framework code and set automation standards across the programme.

Automation Engineer (Junior Associate, Solution Engineering) | Western Union, Pune — *Mar 2019 – Feb 2021*

- Built a BDD automation framework covering APIs, desktop and web applications, used for in-sprint and regression testing with results posted automatically to Slack.
- Built CI/CD pipelines deploying Java and .NET microservices to cloud with automated quality gates; LoadRunner performance testing caught a critical defect before go-live.
- Co-founded WU QAfé, the community that set QA standards across Western Union engineering.

Systems Engineer | Tata Consultancy Services, Pune — *Dec 2016 – Mar 2019*

- Architected a Selenium Grid running 1,400 tests across multiple nodes; cut web regression from 2 weeks to 3 days with automated Jira reporting.
- Built BDD mobile automation for Android and iOS on Perfecto cloud, and hybrid web frameworks on Selenium, Cucumber and TestNG.

EETP Intern | BSNL, Pune — *Jun 2014 – Nov 2015*

- Industrial training across software development, networking and cyber security.

EDUCATION, CERTIFICATIONS & AWARDS

B.E. Electronics and Telecommunication — Savitribai Phule Pune University, First Class with Distinction — *2012 – 2016*

Certifications: ISTQB Certified Tester (2017) · SAFe 4 Practitioner (2019) · RPA Developer Foundation (2020)

Awards: WU WAY Group STARS Winner Q1 2020, Flair Award 2019 (Western Union) · Star of the Quarter 2018, Star of the Month 2018, Citi Bright Beginner 2018, On the Spot 2017, Star Performer 2017 (TCS)