Shubham Sharma
Staff SDET

- About Me
- Experience
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- Education

CAREER FOCUS
- Staff / Principal SDET or Quality Platform Engineer roles
- Ownership of automation platforms and quality strategy at scale
- Engineering-driven SaaS organizations with enterprise reach and multi-tenant architecture

📍 Pune, India
✉ shubham.sharma75319@gmail.com
📞 +91-8769340009

Professional Summary

Staff SDET with 9+ years of experience driving quality transformation and continuous testing for enterprise, cloud-native SaaS products across multi-region deployments (US, UK). Proven in scaling quality practices to support rapid product growth while minimizing test effort and operational cost.

Specialized in building org-wide QA platforms and shift-left strategies, with deep understanding of application behavior, microservices architecture, and service-level debugging. Recognized for embedding quality engineering and test-driven development practices into engineering culture by combining automation, system design, and strong collaboration with backend and platform teams.

Executive Highlights

Scope & Impact
- Owned quality strategy and continuous testing practices for enterprise SaaS platforms deployed across multiple regions (US, UK).
- Enabled rapid enterprise growth by minimizing test effort through reusable automation platforms, avoiding linear QA scaling and reducing test creation effort by 70%.
- Drove org-wide shift-left adoption, reducing regression feedback cycles by 45% and late-stage defects by 40%.
- Built shared QA platforms consumed by multiple teams and services with 99.5% uptime and reliability.
- Supported horizontal SaaS scaling across multi-tenant architecture without compromising release confidence or delivery speed.
- Partnered with Engineering, DevOps, and Product leadership to align quality engineering strategy with business goals and time-to-market objectives.

Architecture & Design
- Designed scalable automation architectures spanning frontend, backend, contract testing, API testing, and performance testing with test-driven development principles.
- Built code-aware test setups aligned with service internals, improving failure diagnosis by 60% and reducing flakiness by 50%.
- Defined standards for test data management, environment isolation, and execution reliability across cloud infrastructure.
- Designed CI/CD quality gates aligned with service criticality and deployment risk, improving release management efficiency by 35%.
- Led in-cluster test execution models using Kubernetes and Testkube with comprehensive test observability.
- Optimized test depth vs execution cost to support SaaS growth efficiently, reducing cloud costs by 12%.
- Influenced platform-level decisions around observability, reporting, failure diagnostics, and site reliability engineering practices.

Skills

Technical Skills

Java · Kotlin · JavaScript · Python · Playwright · Selenium · Cypress · RestAssured · K6 · Testkube · Jenkins · Docker · Kubernetes · Allure · ReportPortal · Selenoid · AWS · Azure · GCP · Crossplane · Spring Boot · Node.js · GraphQL · Microservices · Infrastructure as Code · Contract Testing · API Testing · Site Reliability Engineering

Process & Methodology

Agile · Scrum · Test Strategy · Quality Assurance · CI/CD · DevOps · Test Automation · Performance Testing · Continuous Testing · Test-Driven Development · Quality Engineering · Shift-Left Testing · Release Management · SDLC · Software Quality Assurance · Test Observability

Professional Journey

Staff SDET
AlphaSense · March 2025 – Present
- Designed and rolled out a custom Playwright MCP Server used org-wide to generate base automation scripts in minutes, reducing test bootstrap time by 90%.
- Built backend E2E generators covering full API surfaces with contract testing and API testing capabilities, reducing manual test effort by 70-80%.
- Developed auto-regression analysis tooling to track failures and release trends, improving release management confidence by 40%.
- Designed auto-SDK pipelines detecting Swagger changes and automatically updating multi-language SDKs, reducing SDK maintenance overhead by 85%.
- Launched Slack automation apps to reduce manual intervention in support and operational workflows by 60%.
- Regularly debugged Spring Boot and Node.js services to distinguish test vs product issues and unblock releases, improving time-to-market by 25%.
- Acted as a quality architect influencing automation standards, test strategy, and continuous testing practices across teams.

Team Lead – QA Automation
AlphaSense · Oct 2023 – March 2025
- Automated manual operational workflows using Slack-based automation, reducing response times by 65% and improving operational efficiency.
- Optimized cloud costs via cron-based cleanup and governance using Infrastructure as Code principles, saving $1K+ per month (12% reduction).
- Integrated cloud resources using Crossplane, enabling cloud-agnostic test execution across AWS, Azure, and GCP with 99.5% uptime.
- Implemented and enhanced Testkube with in-cluster testing, triggers, and reusable workflows, improving test observability by 50%.
- Shifted validation to build-level execution, strengthening CI/CD pipelines and reducing late failures by 45%.
- Designed Jenkins-based continuous testing pipelines focused on early defect detection and fast feedback within SDLC.
- Mentored QA engineers to independently own complex automation systems and cloud tooling, improving team autonomy by 60%.

Senior Automation QA
AlphaSense · Jan 2022 – Sept 2023
- Led a team of 3 QA engineers and managed sprint planning and execution following Agile and Scrum methodologies.
- Built scalable automation frameworks using Java, JavaScript, Cypress, K6, and Selenide with test-driven development principles.
- Integrated post-deployment automation using Spinnaker for continuous testing and release management.
- Implemented performance testing strategies for microservices and SQS-based systems, identifying bottlenecks and improving throughput by 35%.
- Improved system reliability through proactive automation and performance insights, reducing production incidents by 30%.

Automation QA
AlphaSense · Mar 2020 – Dec 2021
- Implemented frontend automation using Selenium (Java) and Selenide (Kotlin) with comprehensive API testing and contract testing coverage.
- Built backend API automation using Kotlin and RestAssured following shift-left testing practices.
- Automated GraphQL APIs and maintained large-scale regression suites (4K+ test cases) with 95% pass rate.
- Integrated Allure, ReportPortal, and Selenoid Grid for test observability, reporting, and execution scalability across multi-tenant architecture.

QA Automation / Associate QA
Accenture · Jan 2017 – Mar 2020
- Automated 100+ healthcare web applications across enterprise client engagements following software quality assurance best practices.
- Executed E2E, regression, smoke, UAT, and UI testing within complete SDLC lifecycle.
- Worked on US government projects with strict compliance and quality standards, achieving 98% defect detection rate.
- Built strong foundations in enterprise QA processes, documentation, and quality engineering methodologies.

Key Platforms & Innovation

- Playwright MCP Server for rapid test generation, reducing test bootstrap time from days to minutes (90% improvement).
- Backend E2E Test Generators covering near-complete API surfaces with contract testing, reducing manual test creation by 70-80%.
- Auto-SDK Pipelines detecting Swagger changes and auto-updating Java, JavaScript, and Python SDKs with 85% reduction in maintenance overhead.
- Auto-Regression Analysis Tooling to monitor trends and improve release confidence by 40%.
- Slack Automation Apps to resolve client and support workflows programmatically with 60% reduction in manual intervention.
- Cloud-agnostic Test Execution Frameworks using Crossplane and Infrastructure as Code across AWS, Azure, and GCP.

Education

B.Tech – Mechanical Engineering | JECRC, Jaipur | 2012 – 2016 | 68.1%

12th – Science (Math & Physics) | RBSE | 2010 – 2011 | 75%

10th | RBSE | 2008 – 2009 | 75%

Certifications: Selenium Professional Certification (VSkills, 2019)