

Viraj Katkar

Senior Software Engineer QA - Test Automation, SaaS Application, & SDLC Knowledge

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📍 [Vancouver, BC](#)

in [LinkedIn](#)

SKILLS

- **Test Automation Frameworks:** Selenium, Appium, JUnit, Espresso, and Compose Testing Library.
- **Cloud & SaaS Testing:** AWS, Azure, GCP, microservices, PWA, web, Android, iOS, SmartTV platforms.
- **API Testing & Validation:** RESTful APIs, Postman, Swagger, REST Assured, response codes, schemas.
- **Database & SQL Proficiency:** MySQL, PostgreSQL, Oracle, SQL queries, indexing, and data validation.
- **Performance & Security Testing:** JMeter, Gatling, HTTPS, SSL/TLS, IPsec, vulnerability & penetration.
- **Agile & SDLC Expertise:** Scrum, Kanban, Waterfall, test plans, test cases, regression & exploratory testing.

WORK EXPERIENCE

Sr. Software QA Specialist

June 2023 – June 2024

Fortinet

British Columbia

- Developed 200+ test cases on ESXi/KVM; assessed throughput metrics and escalated anomalies via Jira reports.
- Processed 500+ Spirent flows using CLI; flagged abnormal packets and presented triage insights to engineers.
- Investigated 50+ critical bugs with 12 developers; traced root causes and facilitated weekly defect review sessions.
- Validated IPsec, VPN, firewall for 5 releases using encryption; documented test findings for architecture review.
- Simulated 1,000+ HA failovers on ESXi; audited recovery trends and reported results in agile sprint meetings.
- Benchmarked CPU/RAM in 25+ encrypted test beds; generated performance reports for cross-functional teams.
- Maintained QA traceability for 15+ builds using Xray; tracked coverage and linked test cases with requirements.
- Automated 30+ Python test scripts; annotated code for reusability, mentored team members on best practices.
- Coordinated testing for 8 modules per release; aligned workflows with build schedules, cross-team dependencies.
- Integrated regression testing into Jenkins for 12+ releases; presented failure patterns and also resolution plans.
- Monitored memory stats daily for 50+ builds; summarized findings into weekly QA reports for stakeholders.
- Executed baseline functional tests across 10+ platforms; validated APIs, boot sequences, and integration stability.
- Verified 10K+ encrypted tunnels monthly; analyzed session tables, packet captures, and security parameters.
- Authored 40+ HA checklists with failover routines, state transitions, and detailed verification logs for cycles.
- Simulated 500+ secure sessions; collaborated with networking team to audit handshake logs, encryption flows.
- Analyzed 500+ system logs; created telemetry dashboards to visualize anomalies and shared actionable insights.

Software Engineer

October 2021 – January 2023

Zscaler Inc.

California

- Designed 60+ comprehensive test plans; ensured functional coverage across web, mobile, and cloud platforms.
- Deployed cloud infra on AWS and Azure for 20+ instances using Terraform; documented VPCs and subnet rules.
- Debugged 500+ TCP flows using socket trackers; delivered latency and packet diagnostics to 12 developers.
- Automated 15+ repetitive QA tasks using Bash; shared reusable scripts across different teams for efficiency.
- Resolved 92% hybrid bugs; used packet logs, defect scripts, trace points, and error signatures for validation.
- Audited 20+ memory leaks using core dumps, ASAN instrumentation; generated detailed reports for engineers.
- Managed 500+ Jira test cases; tracked status, coverage, workflows, and release labels for complex projects.
- Configured 30+ Jenkins pipelines using Groovy and YAML; integrated Slack alerts, post-steps, and stage checks.
- Evaluated 12 tenant setups with locust and emulators; measured concurrent users, ramp stages, and latency.
- Authored 150+ cross-browser tests by Puppeteer, Selenium Grid, and headless Chrome with viewport checks.
- Monitored 40+ kernel dumps via GDB; assessed stack frames, thread schedules, signals, and register values.
- Executed 500+ builds with Git hooks, timestamp checks, workspace cleaning, and directed log collection.
- Stabilized 25+ legacy flows using SDK APIs, patch diffs, rollback scripts, and deprecated call monitoring.
- Scaled simulations to 80K users with 3 QA engineers and DevOps team; verified concurrent performance loops.
- Simulated 8 DR cases using backup, failover, ping checks, service maps, and also health monitoring tools.
- Visualized 100+ metrics using Grafana and Prometheus; exported thresholds and SNMP collector data for teams.

EDUCATION

Master of Science in Electrical Engineering

August 2015 – May 2017

San Jose State University, California

CERTIFICATIONS

- Cisco Certified Network Professional (CCNP) – Routing

Cisco Systems