

AKASH AGGARWAL

Manager QA | QE Platform Architect | AI-Driven QE Transformation

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Global delivery: India, Japan, Indonesia (business visa) | Valid Japan business visa

Portfolio: www.akashaggarwal.in | LinkedIn: [Profile Link](#)

PROFESSIONAL SUMMARY

- **QA Manager with 14.5+ years of engineering leadership**, specializing in building, hiring, and motivating high-performing technical teams from the ground up for Large Enterprise-class product development.
- **Proven success in aggressively scaling headcount and capacity planning** (built India Rakuten QE team from 0 to 10; scaled Paytm team from 0 to 20+; managed 50+ SDET org at Paytm PB), ensuring optimal QA-to-developer ratios ahead of engineering growth.
- **Champion of AI-augmented testing practices** and modern DevOps tooling, architecting progressive enterprise-wide testing layers (pre-commit, CI checks, E2E regression, performance, and durability) to prevent escaped defects.
- **Strategic quality leader** proficient in Python, Java, Go, Advanced Linux environments, and overseeing complex, high-availability enterprise architectures (90M+ MAU, 400M+ monthly transactions).
- **Expert in transforming QA automation frameworks** to focus on system semantics, minimizing validation times, reducing infrastructure costs, and seamlessly coexisting with CI/CD pipelines at scale.

TECHNICAL STACK & CORE COMPETENCIES

- **QA Leadership & Operations:** QA Org Building (0 to 50+), Global Hiring & Mentorship, Resource & Capacity Planning, Budgeting, Cross-Functional Alignment, Delivery Governance.
- **Languages & Scripting:** Python, Java, Go, TypeScript, SQL, Shell scripting, Advanced Linux administration.
- **Automation Frameworks & Strategy:** Selenium WebDriver, Cypress, Playwright, Appium, PyTest, Cucumber (BDD/Gherkin), TestNG, JUnit, Rest Assured.
- **DevOps, CI/CD & Cloud:** GitHub Actions, Jenkins, Ansible, Docker, Kubernetes, Terraform, AWS, GCP, Azure, Maven.
- **Performance & Observability:** JMeter, Gatling, k6 (load/stress, latency, page-load testing), Grafana, Prometheus, Datadog, Kibana, New Relic.
- **AI Engineering & Next-Gen QA:** Agentic AI, Generative AI, MCP, Prompt Engineering, Cursor (Agents + CLI), Claude/OpenAI/DeepSeek APIs.

IMPACT SNAPSHOT & QUALITY METRICS

- **Team Building & Leadership:** Built Rakuten India QE team from 0 to 10; scaled Paytm QE from 0 to 20+; managed a 50+ QA & SDET org at Paytm Payments Bank.
- **Enterprise Quality Governance:** Maintained zero production issues at Rakuten Affiliate by designing rigorous CI quality checks, release readiness gates, and disciplined RCA.
- **AI-Augmented Velocity:** Shipped agentic QE workflows that reduced code-review time by 50% and generated 2K test cases for 24 new APIs in <5 business days.
- **Cost & Infrastructure Optimization:** Reduced global automation execution time by 50% via intelligent test sharding, directly accelerating test velocity and optimizing cloud infrastructure costs.
- **Scale & Reliability:** Led quality strategy for platforms handling 90M+ MAU and processing 400M+ monthly transactions under strict 99.99% uptime SLAs.

PLATFORMS BUILT & TECH INNOVATIONS (TEST INFRASTRUCTURE)

- **Web Farm:** (<https://webfarm.akashaggarwal.in>) Private cloud browser studio for live Chrome, Opera, and Edge sessions with mobile viewports. Supports on-demand parallel Selenium/WebDriver runners for QA demos and CI automation.
- **Mobile Farm:** (<https://mobilefarm.akashaggarwal.in>) Cloud mobile device lab for live Android sessions, manual access, and Appium automation. Built for responsive QA sign-off and real-device validation without a physical device lab.

- **AI API Automation:** (<https://aiapiautomation.akashaggarwal.in>) AI-assisted platform to design, organize, and run API collections, proxies, and test suites. Enables faster API validation workflows with private, shareable automation workspaces.
- **Performance Test:** (<https://performancetest.akashaggarwal.in>) Load-testing workspace for per-endpoint QPS, ramp-up, latency (P95), and error-budget checks. Designed to validate scale and release readiness before production traffic.
- **AI Test Case Generator:** (<https://aitestcase.akashaggarwal.in>) Converts requirements/docs into structured, prioritized test cases using AI. Supports clarifying questions, bulk generation, and CSV export for QA handoff.
- **AI Spec → Automation Suite:** (<https://aispectosuite.akashaggarwal.in>) Generates API/UI/DB test cases from product specs and automates selected suites. Produces Rest Assured / Selenium POM projects (Java/Python) for executable coverage.
- **Test Data Manager:** Architected an API and UI-driven platform for on-demand test data generation, ensuring targeted coverage for intended system functionality.
- **TestCouncil & AI Workflows:** Built agentic AI tools transforming Confluence specs and code into comprehensive test suites, reducing test creation time by 40%.

PROFESSIONAL EXPERIENCE

Rakuten (GATD) - Rakuten Affiliate

Bengaluru, India | May 2023 – Present

Staff QA Engineer Rakuten India (QA Leader Affiliate Platform Japan and Global)

- **Strategic Team Building:** Built the Rakuten QE team in India from 0 to 10 engineers, while managing a ~20-member distributed QE team across India, Japan, and Singapore. Owned end-to-end hiring, capacity planning, and aggressive organizational scaling.
- Own QA strategy for Rakuten Affiliate (~\$6.4B USD revenue), continuously elevating enterprise processes across performance, durability, and user experience.
- Define and implement progressive testing layers integrated into global CI/CD pipelines, automating 100K+ E2E tests and 7K+ API tests annually.
- Partner with Product, Development, and DevOps teams to streamline releases, resulting in zero production issues since joining and the successful, defect-free delivery of the YouTube Shopping integration (Japan).
- Champion an internal AI Initiative, architecting 6 critical QE platforms to drive testing efficiency and allow teams to focus on system semantics over boilerplate automation.

Paytm Payments Bank

Bengaluru, India | Dec 2022 – Apr 2023

Senior QA Manager (UPI & Payments)

- Hired, managed, and motivated a 50+ member QA & SDET organization for enterprise-class UPI programs.
- Led the quality engineering strategy for a high-performance financial system processing 400M+ monthly transactions.
- Anticipated customer workloads and implemented targeted coverage (including rigorous chaos testing and automated audit trails), maintaining a zero-defect record for highly regulated payment products.

Tokopedia

Bengaluru, India / Indonesia | Oct 2019 – Dec 2022

Technical Architect - Engineering Productivity (Quality)

- Sole Technical Architect for a 120+ member QA organization within a decacorn marketplace (90M+ MAU).
- Built and scaled 3 foundational test platforms from the ground up, supporting 800+ developers and accelerating release validation times.
- Engineered parallel pipelines, CI quality gates, and testability standards that minimized release overhead and seamlessly coexisted with DevOps processes.

Paytm / Paytm Mall

India | Jun 2016 – Oct 2019

QA Lead

- Hired as the first dedicated mobile app QA (Senior QA Engineer); spearheaded the strategic transition from an outsourced testing model to a robust in-house QA organization, aggressively scaling the team from 0 to 20+ engineers.
- Built automation solutions and CI/CD testing frameworks from scratch to deliver reliable releases across critical business verticals (Recharges, Movies, Flights, Trains, Bus, Money, and Lending).
- Maintained a flawless zero-defect production record while scaling QA infrastructure to handle unprecedented user traffic spikes and transactions during the 2016 demonetization.

- Transitioned internally to bootstrap the Paytm Mall (E-commerce) QA division from the ground up, establishing release readiness protocols and test architecture ahead of rapid engineering growth.

Snapdeal

India | Apr 2015 – May 2016

QA II (Mobile Applications)

- Led quality for high-impact mobile releases, ensuring resilience during extreme peak loads (Flash Sales) with 99.8% crash-free sessions.

(Previous experience includes Test Engineer at Steria India, delivering the British Gas 'Hive Home' IoT ecosystem, and founding QA Engineer at LeewayHertz, where I scaled the department from zero and delivered 180+ mobile applications and 60+ CMS platforms.)

INTELLECTUAL PROPERTY & PATENTS

- **Test Data Auto-Generation Platform (IPCOM/000270556):** Synthetic high-fidelity test data generation. | <https://priorart.ip.com/IPCOM/000270556>
- **Frontend Automation Optimization (IPCOM/000267877):** Methodology to reduce execution latency in large-scale UI suites. | <https://priorart.ip.com/IPCOM/000267877>
- **Ads Relevancy Validation Engine (IPCOM/000268270):** Automated validation for contextual accuracy. | <https://priorart.ip.com/IPCOM/000268270>

EDUCATION & CERTIFICATIONS

- **Master of Computer Applications (MCA)** – Guru Gobind Singh Indraprastha University (GGSIPU), Delhi
- **Bachelor of Computer Applications (BCA)** – Guru Gobind Singh Indraprastha University (GGSIPU), Delhi
- **Certifications:** Anthropic (Agent Skills, Claude 101, Model Context Protocol), AWS (Architecting on AWS), Udemy (Microservices - Designing Highly Scalable Systems).