Mayank Agrawal



Senior Software Quality Engineer

QA Automation | AI-Powered Testing | Quality Leadership

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PROFESSIONAL SUMMARY

Senior Software Quality Analyst Engineer with 3.5+ years of experience in test automation, quality leadership, and AI-driven QA innovation. Proven track record of building and scaling quality engineering organizations from the ground up and owning end-to-end delivery for global enterprise clients. Specialized in architecting scalable automation frameworks (**Playwright, Selenium, Python**) and pioneering generative AI integrations to drastically reduce manual testing overhead. Adept at cross-functional leadership, CI/CD pipeline optimization, and serving as the primary technical liaison for client stakeholders.

TECHNICAL SKILLS

AUTOMATION	Playwright · Selenium · Python · Page Object Model
AI & AGENTIC QA	MCP Framework · AI QA Agent · Subagent Architecture
TESTING TYPES	UI/UX Testing · API Testing · End-to-End Functional Testing
TOOLS & CI/CD	JIRA · Azure DevOps · QMetry · Firebase · Git
METHODOLOGIES	Agile / Scrum · Shift-Left Testing · Risk-Based Testing · Test Strategy

PROFESSIONAL EXPERIENCE

Senior Software Quality Analyst Engineer — Dec 2024 – Present

Josh Technology Group, Gurgaon

- Architected company's first **AI-Powered QA Agent** using LLMs, MCP framework, and orchestrator-subagent architecture integrated with Playwright — autonomously ingests ticket IDs, performs requirement gap analysis, generates comprehensive test plans, and executes UI/API tests. Achieved **70% faster time-to-test** and **85% less documentation overhead**.
- Built and scaled the project team from scratch — grew team from **8 to 50+ members** (30+ devs, 10+ QAs); established robust testing standards, quality gates, and release processes adopted company-wide.
- Owned **40+ sprint releases and 10+ hotfixes** end-to-end across Dev, Staging, and Production environments for a major US-based EdTech client on a strict bi-weekly delivery cadence.
- Developed a highly scalable **Playwright automation suite**, cutting release regression time by **~40%**.
- Served as the primary **QA liaison with on-shore client stakeholders** — led daily standups, sprint planning, sprint demos, and client defect triages; consistently praised for communication quality and technical depth.
- Spearheaded performance and API testing strategies, ensuring backend stability and high availability during peak load scenarios for the client's core platforms.
- Conducted **80+ technical interviews** (campus + lateral SDET/SQA) and **mentored 20+ employees** through structured 4-week induction programs on SDLC, API testing, automation, and Agile methodologies.
- Led campus hiring drives — built internal assessment apps, designed technical question banks, and delivered **expert talks at 10+ universities** on modern Software Testing practices and company's hiring processes.
- Automated onboarding and induction workflows utilizing **Google Apps Script** — created folder setup bots and daily task update automations for team leads, saving **~5 hours per week**.

Software QA Engineer

Nov 2022 – Dec 2024

Josh Technology Group, Gurgaon

- Designed and maintained a robust **Selenium + Python (PyTest) automation framework** leveraging the Page Object Model (POM) — increased automated test coverage by **40%** and defect detection rate by **30%**.
- Orchestrated end-to-end functional and regression testing across **20+ complex releases** for international enterprise clients — ensuring 100% on-time delivery with zero critical production bugs.
- Pioneered **shift-left testing methodologies** — actively participated in requirement analysis and architecture reviews to eliminate design-stage gaps, reducing downstream defect leakage by **25%**.
- Executed comprehensive **API testing using Postman** to validate core microservices — ensuring seamless data flow and integration between frontend components and backend databases.
- Identified and resolved a critical UX flow bottleneck through structured exploratory testing — leading to a **direct 15% improvement in end-user satisfaction metrics** reported by the client.
- Mentored and **trained 5+ junior QA engineers** in test case design, defect lifecycle management, and tooling (JIRA, Zephyr) — significantly accelerating their onboarding time.

GRC Advisory Analyst (Internship)

Jun 2022 – Sep 2022

KPMG Assurance and Consulting Services LLP, Noida

- Managed **GRCP Audits** for entities (ASKs, EAs, AUAs & ASAs) at **UIDAI Headquarters** — ensuring compliance with government-mandated security policies.
- Analyzed audit reports against compliance frameworks; provided **actionable improvement insights** for audit deliverables.

EDUCATION

Bachelor of Technology (B.Tech)

2019 – 2023

Computer Science & Engineering · Sharda University, Greater Noida

CERTIFICATIONS

Claude 101
Anthropic · Verify certificate

AI Fluency: Framework & Foundations
Anthropic · Verify certificate

AI Fluency: AI Capabilities & Limitations
Anthropic · Verify certificate



Claude Partner Badge: Claude Code
Anthropic · Verify badge

KEY ACHIEVEMENTS & LEADERSHIP

Award-Winning Innovation & Technology Strategy

- Secured the prestigious **Best Demo Energy Award** among 25+ competitive teams at a global client hackathon, demonstrating exceptional technical delivery and presentation under pressure.
- Championed a culture of continuous innovation by actively evaluating and integrating cutting-edge tools into the core tech stack, establishing new departmental benchmarks for Research & Development.

Cross-Functional Leadership & Operational Excellence

- Recognized as a key organizational catalyst for institutionalizing zero-defect delivery models and fostering deep collaboration between development, QA, and onshore product teams.
- Drove significant improvements in overall engineering velocity and team morale by establishing comprehensive knowledge-sharing ecosystems and scalable frameworks.