

# SAURABH ANANT

Lead Member of Technical Staff - SDET | AIOps & LLM Integration | Agentic QA Engineering

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## PROFESSIONAL SUMMARY

Lead Member of Technical Staff (SDET) with 6+ years of experience in Software Development Engineering in Test (SDET), specializing in AIOps, LLM Integration, and Agentic QA Engineering. Expert in building autonomous AI-driven testing systems that replace manual intervention with intelligent, high-coverage test automation at scale. Proven track record of leading on-call teams, reducing Mean Time to Resolution (MTTR) through AI agents, modernizing QA pipelines with Large Language Models (LLMs), and driving 30% regression time reduction across multiple products. Core competencies include Java, Python, Selenium WebDriver, REST API automation, Jenkins CI/CD, GitHub Actions, and cross-functional team leadership.

## TECHNICAL SKILLS

**AI & Automation:** AI Agent Orchestration, LLM Integration, Prompt Engineering, AIOps, Claude API, Agentic Frameworks, Autonomous Testing

**Test Automation:** Selenium WebDriver, TestNG, Maven, Rest Assured, Playwright, TypeScript, Cross-Browser Testing, Web Scraping, BDD, Cucumber

**Programming Languages:** Java, Python, JavaScript, TypeScript, SQL, REST APIs, Shell Scripting

**DevOps & Tools:** Jenkins CI/CD, GitHub Actions, Git, Docker, Datadog, JIRA, Slack API, LambdaTest, BrowserStack, Linux

**QA Methodologies:** End-to-End Quality Ownership, Regression Testing, Smoke Testing, Sanity Testing, Functional Testing, Integration Testing, API Testing, UI Testing, Performance Benchmarking, Flakiness Remediation, Shift-Left Testing, Root Cause Analysis, Test Case Design

**Leadership:** Team Leadership, Scrum Master, Program Management, Code Review, Cross-Functional Collaboration, Mentoring, Sprint Planning

## PROFESSIONAL EXPERIENCE

### Lead Member of Technical Staff - SDET

TestMu AI (formerly LambdaTest) | Noida, India | February 2026 - Present

- Lead high-performing Application On-Call team, orchestrating ticket alignment and cross-functional incident response to ensure zero-downtime product reliability across all platform services.
- Engineered and deployed autonomous AI agents using LLM integration to automate real-time ticket auditing and complex troubleshooting, significantly reducing Mean Time to Resolution (MTTR).
- Modernized QA pipeline by integrating Large Language Models (LLMs) for automated test execution, bug verification, and edge-case identification across multiple product verticals.
- Shifted on-call culture from reactive firefighting to an AI-first model, ensuring high-scale quality assurance without manual intervention.
- Provide shadow support to application feature teams, bridging quality assurance with development workflows for seamless releases.
- Spearhead Agentic QA Engineering initiative - building end-to-end autonomous testing frameworks that think, adapt, and scale using AI agent orchestration and prompt engineering.

### Senior Member of Technical Staff - SDET

LambdaTest | Noida, India | April 2023 - January 2026 (2 years 10 months)

- Owned end-to-end product quality for Visual Regression Testing, Accessibility Testing, and multiple platform verticals through manual and automated testing strategies.
- Led regression testing optimization initiative targeting 30% reduction in regression time per product across RD and VD verticals through code-level optimizations and test case merging.
- Built performance comparison frameworks analyzing screenshot durations and test execution times between production and staging environments across multiple browser configurations.
- Designed and distributed investigation tickets covering code-level optimizations, intelligent test case merging, and flakiness remediation to improve overall test suite reliability.
- Mentored junior SDETs, conducted code reviews, and drove best practices in test architecture, automation design patterns, and shift-left testing methodology.

## **Member of Technical Staff - SDET**

LambdaTest | Noida, India | July 2021 - April 2023 (1 year 10 months)

- Built and maintained API automation and UI automation suites using Selenium WebDriver, TestNG, Maven, and Rest Assured for comprehensive platform coverage.
- Managed Jenkins CI/CD pipelines for smoke testing, sanity testing, and regression testing; performed code reviews across multiple product areas.
- Migrated test framework and integrated BiDi API, increasing automation coverage and test reliability significantly.
- Created sample automation repositories in multiple programming languages (Java, Python, JavaScript) for customer onboarding and developer documentation.
- Handled database-level testing and validation using SQL to ensure data integrity across platform services.

## **Software Development Engineer in Test (SDET)**

AdmitKard | Noida, India | February 2020 - July 2021 (1 year 6 months)

- Led the Testing and Automation domain for a VC-funded Ed-Tech startup, owning overall product quality across web and mobile platforms.
- Wrote automation code in Java with Selenium WebDriver, built Python scripts for web scraping, data processing, and monitoring automation via Datadog.
- Deployed Jenkins CI/CD jobs for continuous testing and set up monitoring dashboards for proactive issue detection.
- Took on dual responsibilities as Scrum Master and Program Manager, coordinating sprint planning and cross-team delivery.
- Built automation framework from scratch for new products, establishing quality assurance foundations from day one.

## **Software Development Engineer in Test (SDET)**

AdmitKard | Noida, India | August 2019 - February 2020 (7 months)

- Started career in software testing, building foundational skills in manual testing and automated testing methodologies.
- Contributed to UI testing, API testing, functional testing, and integration testing across multiple product areas.
- Automated test cases using Java and Selenium and maintained existing automation suites for consistent product quality assurance.

## **KEY PROJECTS**

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### **- E2E Agentic Automation Framework (TestMu AI):**

Architected and built an end-to-end AI-powered test automation framework using TypeScript, Playwright, and Cucumber BDD at TestMu AI for LambdaTest products. Framework leverages Claude/Cursor AI agents to auto-generate 15-30+ test cases from JIRA tickets, Confluence docs, and RFCs through a 14-phase pipeline including multi-persona AI review with Devil's Advocate validation. Implemented a unique Dual-Browser Architecture - an Observer browser monitors the SmartUI dashboard while an Activity browser executes test actions on LambdaTest Cloud. Integrated with LambdaTest Test Manager (TMS) for test case management, AJV for JSON schema validation, and multi-layered reporting (Cucumber HTML, parallel report merging, Slack notifications). Framework is product-aware, reading from 200+ docs across 18 LambdaTest products for context-driven test generation.

### **- LambdaTest Accessibility Chrome Extension Automation:**

Built a custom end-to-end automation framework using Puppeteer and TypeScript to automate the LambdaTest Accessibility Chrome Extension - a Chrome-only DevTools extension that no traditional tool (Selenium, Cypress, Playwright) could automate. Engineered solutions for Chrome Shadow DOM piercing using pierce/ selectors, nested iframe handling for Chrome extension panels, devtools:// protocol access, and automated authentication flows. Framework enabled fully automated accessibility scans, result saving, and regression testing for the Chrome extension.

## **EDUCATION**

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### **Bachelor of Technology (B.Tech) - Computer Science and Engineering**

Future Institute of Engineering and Technology, Bareilly | 2015 - 2019

### **Intermediate (PCM)**

SGRIC, Bareilly | 2015 | 64%

### **High School (Science)**

SGRIC, Bareilly | 2013 | 71.67%

## **HONORS, AWARDS AND LANGUAGES**

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**Awards:** Top Performer - LambdaTest, June 2022 | Wall of Fame - LambdaTest, December 2021 | Hawkeye Award - AdmitKard, April 2020

**Languages:** English (Professional Proficiency) | Hindi (Native)