

Sanjay Kr Singh

 sanjay.singh.aus84@gmail.com

 +91-9953960781  LinkedIn,  GitHub

SUMMARY

Technical QA Lead with 15+ years of experience in test architecture, automation strategy, performance, and security testing. Expert in designing scalable, cross-platform automation frameworks and leading QA transformations aligned with **DevOps and cloud-first principles**. Proven ability to architect cutting-edge testing solutions, enhance test efficiency, and drive end-to-end quality across **UI, API, database, and microservices domains**. Skilled in implementing CI/CD pipelines into automation workflows. Strong data structure understanding enables efficient test design and robust system validation.

EXPERIENCE

3Pillar Global, Noida — *Technical QA Lead*

2016/01 - Present

- **Architected** a hybrid automation framework integrating **UI, API, and database** testing, reducing regression cycle time by **50%**.
- **Designed** CI/CD pipelines using **Jenkins, GitLab, and Azure Pipelines**, cutting manual testing by **60%**.
- Led **cloud migration** strategies, ensuring seamless QA processes across **AWS and Kubernetes** environments.
- **Implemented AI-powered testing** for predictive defect analysis, reducing false positives by **30%**.
- **Defined QA best practices** and standardized test architecture across **10+ enterprise-level projects**, reducing defect leakage by **25%**.
- **Mentored** a team of **10+ engineers**, driving the adoption of **automation-first** and **shift-left** testing methodologies.
- **Developed a BDD automation framework** (Selenium, Cucumber, Java), increasing test coverage by **40%** and

CORE COMPETENCIES

- **Test Automation Architecture** – Designed 7+ robust automation frameworks, increasing test coverage from **40% to 85%**.
- **Strategic QA Governance** Defined QA roadmaps, optimizing test processes for **scalability and reliability**, **Part of QA COE**.
- **Technical Leadership:** Mentored and led **8+ engineers**, fostering a culture of innovation and continuous improvement.
- **CI/CD & DevOps Integration** – Architected pipelines using **Jenkins, GitLab, and Azure Pipelines**, reducing test cycles by **60%**.
- **Cloud & AI-driven testing:** Leveraged AI-driven tools in cloud-based testing to accelerate the development of automation scripts and enhance efficiency
- **Code Coverage:** Integrated **Jacoco and Istanbul** tools with the framework to measure code coverage for automation.
- **Performance and Security:** Hands-on experience with **performance testing, load testing, and benchmarking**. Proficient in **static code**

improving transparency in testing processes, leading to **20% faster release cycles**.

- Designed automation **visual regression test** suite using **BackstopJS**, reducing UI defects by **30%**.

Parametric Technology, Gurgaon — Sr QA Specialist

2014/11 – 2016/01

- **Built** a robust **Selenium WebDriver** automation framework, reducing manual testing by **50%**.
- Increased **API** test coverage by **80%** through **Rest-Assured**-based automation.
- Optimized test execution via parallel testing, reducing execution time by **40%**.

McAfee India Pvt, Gurgaon — Sr Test Engineer -

2013/12 - 2014/10

Objective System Integrator, Gurgaon - Software Engineer QA- 2011/06 - 2014/10

TeleDNA Pvt Ltd, Bangalore - 2010/01 - 2011/06

EDUCATION

ACT-CDAC, Pune — PG Diploma in System Software Development 09/2009

Assam University, Silchar — M.Sc. in Computer Science 2005-2007

Assam University, Silchar — B.Sc. in Computer Science 2002-2005

CERTIFICATION

Certified Scrum Master (CSM) – Scrum Alliance

PG Diploma in System Software Development – ACT-CDAC

analysis for security
assessment of the codebase.

SKILLS

Java, **Python**, **JavaScript**, **Groovy**,
Shell Scripting **Selenium**, **Appium**,
Xcode, **AndroidStudio**, **Charles**,
Confluence, **Firebase Crash**
Analytics, **Cucumber**, **Playwright**,
Rest-Assured, **Postman**, **Jmeter**,
BackstopJS, **Jmeter**, **TestNG**,
Maven, **Jenkins**, **LoadRunner**,
AWS, **GCP**, **Kibana**, **LMS** and
EdTech, **Jacoco**, **Istanbul**, **MySQL**,
SQL Server, **Codeium**, **Gemini**, **Jira**
AI Assistance, **ChatGPT**, **Agile**
Methodology, **Requirement**
Analysis, **Software Testing Life**
Cycle(STLC), **User Acceptance**
Testing (UAT), **Defect Life Cycle**,
Root Cause Analysis (RCA).

AWARDS

Awarded the **Extra-Mile**
award twice.

Bi-annual award for
delighting the Client by
providing efficient solutions.