Chetan Rakheja

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Senior Software Development Engineer in Test

ISTQB Certified | 6.2+ Years | QA Automation | SDET | Distributed Systems Testing

I'm a Test Engineer with 6.2+ years of experience building automation frameworks, performance test suites, and backend/API validation systems for enterprise-scale applications. I specialize in Python and Java based automation, JMeter performance testing, and end-to-end quality engineering across microservices and distributed systems.

I work closely with developers, architects, and business teams to improve application stability, scalability, and reliability, while mentoring junior engineers and driving continuous improvement across QA processes.

Technical Skills

- **Languages & Frameworks:** Python, Java, JavaScript, TypeScript, Pytest, Selenium, Appium
- **Automation & Tools:** Postman, JMeter, Git, GitLab CI, Jenkins, Docker, Bash, Maven, Swagger
- **Testing Areas:** API Testing, Web Testing, Mobile App Testing, Backend Validation, Data-driven Testing, Performance Testing (JMeter)
- **Databases:** Oracle SQL, MongoDB, MySQL
- **Platforms & Methodologies:** Linux, Agile, Scrum, ISTQB Foundation
- **Cloud & Infrastructure:** Jenkins, Docker-based environments, AWS (basic exposure), CI/CD Pipelines, OpenShift (oc/kubectl), KaaS (Kubernetes-as-a-Service)
- **Monitoring & Messaging:** Kafka (event flow validation), Prometheus (metrics validation), Grafana (dashboard-based monitoring for QA insights), Kibana (log monitoring and analysis)
- **Data Streaming & Integration:** Striim (real-time data ingestion and transformation)
- **Project & Documentation Tools:** Jira, Confluence
- **Generative AI:** Prompt Engineering, LLM Integration, Amazon Q, OpenAI, Cursor

Professional Experience

Iris Software Pvt. Ltd. — Gurugram, India

Senior Software Development Engineer in Test (Client: **National Australia Bank - NAB**) | Jul 2025 – Present

- Built a contract-testing framework using Avro schemas to validate microservice integrations and ensure backward compatibility across distributed systems.
- Automated payload generation, schema validation, and Kafka event verification, reducing integration failures and improving upstream/downstream consistency.
- Designed and executed backend automation test suites in Java (Gradle), integrated directly into CI pipelines for early detection of defects.
- Implemented SQL-driven backend verification workflows, reducing manual validation effort and increasing accuracy across multiple environments.
- Leveraged AI-assisted code review tools to understand complex codebases, identify logic gaps, and accelerate creation of high-coverage test suites.
- Collaborated with developers on unit and integration testing, improving CI/CD reliability and build health.
- Improved release stability by optimizing backend automation pipelines, reducing execution time, and enhancing test parallelism.
- Strengthened quality governance by expanding automation coverage and implementing consistent test strategies across squads.

Orange Business Services – Gurugram, India

System Software Engineer | Sep 2022 – Jul 2025

- Architected and maintained Pytest + Selenium based automation frameworks for API, UI, and backend test coverage.
- Led end-to-end test strategy for microservices, ensuring robust test coverage, quality metrics reporting, and defect lifecycle ownership.
- Designed comprehensive REST API & backend validation suites using MongoDB and SQL.
- Integrated automation frameworks with GitLab CI, enabling rapid feedback cycles and high CI/CD stability.
- Partnered with DevOps teams to optimize pipelines, reduce flaky tests, and scale automation jobs across clusters.
- Built Python utilities for parsing production data and generating automated Excel reports.
- Conducted root cause analysis for regressions, improved test reliability, and introduced systemic QA fixes.
- Mentored junior QA engineers and implemented API testing best practices across teams.
- Executed JMeter-based performance tests, identifying API bottlenecks, thread contention, and throughput issues.
- Participated in design review discussions to promote testability, reliability, and performance considerations early in development.
- Coordinated nightly validations, UAT cycles, and cross-team release testing with distributed teams.

Comviva Technologies (Tech Mahindra Subsidiary) – Gurugram, India
Automation Test Engineer | Sep 2019 – Sep 2022

- Automated 195+ Appium mobile test cases, reducing manual regression cycle time by more than 50%.
- Developed reusable modules for API and mobile automation testing (Java + Appium).
- Collaborated with engineering and product teams to resolve 490+ defects across multiple releases.
- Performed backend data validations through Oracle SQL to ensure data integrity and business rule compliance.
- Managed regression, smoke, and integration suites for financial mobile applications.
- Contributed to Agile sprints by refining QA requirements and strengthening sprint-level quality metrics.
- Implemented custom scripts and utilities to accelerate test execution and environment readiness.
- Participated in defect triage, risk assessment, and continuous QA process enhancements.

Projects
Save Screenshots to a Document and a Folder

- Python utility that automatically captures and organizes screenshots during regression execution.
- Reduced manual documentation time and enabled structured reporting for distributed QA teams.

PayViaUPI.com

- A personal project built using Next.js to generate shareable UPI links and dynamic QR codes for simplified P2P payments.
- Demonstrates frontend, backend, and deployment knowledge for personal SaaS-style apps.

Professional Development
Gen AI with Python – *In Progress*

- Practicing prompt engineering: zero-shot, few-shot, chain-of-thought, and structured prompting.
- Built a CLI assistant for natural language-driven code modifications.
- Integrated LLMs with real Python functions for autonomous task execution.
- Developed multi-modal agents (text, image, structured inputs).
- Designed RAG pipelines using QDrant and embedding models.
- Exploring Knowledge Graphs for reasoning-intensive tasks in generative AI.

Achievements & Certifications

- **ISTQB Foundation Certified** (Certificate No. 0098582, July 2019)
- Selected for overseas UAT & production testing
- Recognized multiple times for automation innovation and QA excellence
- Mentored 4+ junior engineers across automation, API testing, and performance testing
- Consistently contributed to internal QA knowledge-sharing initiatives

Education

- **MCA – IGNOU (2019–2023)**: 66.32%
- **BCA – JIMS, New Delhi (2016–2019)**: 85%