

# Chetan Rakheja

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## Senior Software Development Engineer in Test

ISTQB Certified | 6.3+ Years | QA Automation | SDET | Distributed Systems Testing

I'm a Test Engineer with 6.3+ 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.

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## 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/kubectI), KaaS (Kubernetes-as-a-Service)
  - **Monitoring & Messaging:** Kafka, Prometheus, Grafana, Kibana
  - **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
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## Professional Experience

### Iris Software Pvt. Ltd. — Gurugram, India

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

- Built an Avro-based contract-testing framework validating microservice integrations and backward compatibility.
  - Automated payload generation and Kafka schema/event verification, cutting integration failures.
  - Delivered Java (Gradle) backend automation suites wired into CI for early defect detection.
  - Implemented SQL-driven backend verification to shrink manual validation and boost accuracy.
  - Optimized pipelines for faster, parallelized automation runs and steadier releases.
  - Leveraged AI-assisted code review tools to understand complex codebases, identify logic gaps, and accelerate creation of high-coverage test suites.
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### Orange Business Services – Gurugram, India

System Software Engineer | Sep 2022 – Jul 2025

- Led Pytest + Selenium automation for API, UI, and backend coverage, integrated with GitLab CI.
  - Owned microservice test strategy, coverage, quality metrics, and defect lifecycle.
  - Built REST API and backend validation suites using MongoDB, SQL, and JMeter for perf checks.
  - Partnered with DevOps to reduce flaky tests, scale pipelines, and stabilize CI/CD.
  - Created Python utilities for production data parsing and automated Excel reporting.
  - Mentored junior QA engineers and rolled out API testing best practices and sprint QA metrics.
  - Executed JMeter-based performance tests, identifying API bottlenecks, thread contention, and throughput issues.
  - Coordinated nightly validations, UAT cycles, and cross-team release testing with distributed teams.
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# 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%.
  - Built reusable Java + Appium modules for API/mobile automation.
  - Resolved 490+ defects via collaborative triage across multiple releases.
  - Performed Oracle SQL backend validations to ensure data integrity.
  - Managed regression, smoke, and integration suites for financial mobile apps.
  - Implemented custom scripts and utilities to accelerate test execution and environment readiness.
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## 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.
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## Professional Development

### Gen AI with Python – *In Progress*

- Practicing prompt engineering (zero-shot, few-shot, chain-of-thought, structured).
  - Built a CLI assistant for natural language-driven code modifications.
  - Integrated LLMs with Python functions for autonomous task execution and multi-modal agents.
  - Designed RAG pipelines using QDrant and embeddings; exploring knowledge graphs for reasoning-heavy tasks.
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## 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
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## Education

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