

# Chetan Rakheja

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## Senior Software Development Engineer in Test

ISTQB Certified | 6.2+ Years

**Skills:** Python | Selenium | MongoDB | CI/CD | API & Backend Automation

I'm a test engineer with over 6.2 years of experience. I create automated test systems for websites, mobile apps, and backend tools. I help improve software quality, find bugs faster, and make testing quicker. I work well with developers and other teams, and I enjoy teaching junior testers and making sure everything runs smoothly.

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## Technical Skills

- **Languages & Frameworks:** Python, Java, JavaScript, TypeScript, Pytest, Unittest, 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
  - **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/kubect), 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
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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 a contract-testing framework using Avro schemas to validate microservice integrations and ensure backward compatibility.
- Automated payload generation and schema validation, enabling seamless Kafka event and API contract verification across services.
- Designed and executed backend test suites in Java (Gradle) and integrated them directly into the development branch for early defect detection.
- Automated SQL-based backend validations, reducing manual data checks and improving test repeatability across multiple environments.
- Leveraged AI-assisted code analysis tools to understand existing codebases, identify logic gaps, and expand test coverage with minimal developer dependency.
- Collaborated closely with developers to write and maintain unit and integration test scripts, strengthening CI/CD reliability and deployment confidence.
- Improved overall release quality by expanding backend automation coverage and reducing test execution time through optimized pipelines.

### Orange Business Services – Gurugram, India

System Software Engineer | Sep 2022 – Jul 2025

- Architected and maintained automated test frameworks using Pytest and Selenium for API and UI testing.

- Owned end-to-end test strategy for backend systems and microservices, including coverage tracking and quality metrics.
- Designed and executed robust REST APIs and backend validation test plans using MongoDB and SQL.
- Integrated automation tests into GitLab CI pipelines for fast feedback and continuous validation.
- Collaborated with DevOps teams to improve CI/CD workflows and test execution efficiency.
- Created Python utilities to parse production emails and generate automated Excel reports.
- Led root cause analysis for test failures and regressions.
- Mentored junior QA engineers and introduced API testing best practices.
- Coordinated UAT and nightly validations with distributed teams.
- Conducted performance testing using JMeter, identifying API bottlenecks and race conditions.
- Promoted testability during code/design reviews.

## Comviva Technologies (Tech Mahindra Subsidiary) – Gurugram, India

Automation Test Engineer | Sep 2019 – Sep 2022

- Automated 195+ mobile test cases using Appium (Java), reducing manual effort by over 50%.
- Designed custom scripts to streamline regression, smoke, and integration testing.
- Led testing efforts for mobile finance apps with 490+ defect resolutions.
- Deployed patches to Linux and validated backend data via Oracle SQL.
- Collaborated in Agile squads to refine QA and ensure sprint quality.
- Built reusable modules for API and mobile test automation.
- Participated in defect triage meetings and QA process improvements.

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## Projects

### Save Screenshots to a Document and a Folder

- Python utility that auto-captures and organizes screenshots during tests, saving hours of manual effort during regression.

### PayViaUPI.com

- A personal project built with Next.js to simplify UPI payments by generating shareable UPI links and QR codes.

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## Professional Development

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

- Practicing prompt engineering: zero-shot, few-shot, and chain-of-thought.
- Built a CLI assistant for natural language-based code updates.
- Connected LLMs to Python functions for agentic execution using OpenAI tools.
- Developing multi-modal agents (text, image, structured input).
- Working with RAG pipelines using QDrant and embedding models.
- Exploring knowledge graphs for contextual reasoning in generative tasks.

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## Achievements & Certifications

- **ISTQB Foundation Certified** (Certificate No. 0098582, July 2019)
- Selected for overseas client UAT & production testing
- Multiple awards for QA excellence and automation innovation
- Led internal QA knowledge-sharing and mentored 4+ junior engineers

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## Education

- **MCA – IGNOU (2019–2023):** 66.32%

- **BCA – JIMS, New Delhi (2016–2019): 85%**