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Senior SDET | AI Agent Workflows | MCP • Python • LLM Infrastructure

6+ Years | Distributed Systems | API Engineering | Backend Validation | Exploring AI Engineering

I'm a Senior SDET with 6.6+ years of experience in distributed systems, API engineering, and backend validation for enterprise-scale applications. Over the past year I've been going deep into AI engineering — designing and integrating custom MCP-compatible tooling, building LLM-powered workflows, and shipping production AI projects independently.

My QA background gives me something most AI engineers don't naturally have — a systematic instinct for evaluation, edge cases, and failure modes. When I look at an LLM-powered system, I think about where it breaks, how to measure it, and how to make it reliable.

Technical Skills

- **AI & LLM:** Prompt Engineering, LLM Integration, MCP (Model Context Protocol), Agentic Workflows, RAG Pipelines, OpenAI, Anthropic Claude, Amazon Q, Cursor
 - **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), Contract Testing (Avro)
 - **Data & Pipelines:** Apache Airflow (DAG execution), Parquet file processing, Kafka, Striim
 - **Databases:** PostgreSQL, Oracle SQL, MongoDB, MySQL
 - **Cloud & Infrastructure:** AWS (basic), CI/CD Pipelines, OpenShift (oc/kubectl), KaaS, Docker
 - **Monitoring & Messaging:** Kafka, Prometheus, Grafana, Kibana
 - **Project & Documentation Tools:** Jira, Confluence
 - **Platforms & Methodologies:** Linux, Agile, Scrum, ISTQB Foundation
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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

- Designed and integrated custom MCP-compatible tooling enabling LLM agents to perform multi-step workflows — API execution, database state verification, test case generation from technical documents, and artifact extraction — within an enterprise banking engineering environment.
 - Used agentic AI for root cause analysis — navigating complex enterprise codebases to surface bug locations and error context for developers, accelerating defect resolution.
 - Generated test cases autonomously from technical specification documents using LLM-based workflows, reducing manual test design effort significantly.
 - Built and embedded AI-generated blackbox tests directly in the development repository, enabling shift-left quality detection at commit time.
 - Validated Airflow DAG pipelines — verified Parquet file ingestion, data transformation logic, and downstream output to Kafka topics and databases.
 - Built Avro-based contract-testing framework validating microservice integrations and backward compatibility.
 - Automated Kafka schema and event verification, reducing integration failures across distributed services.
 - Delivered Java (Gradle) backend automation suites integrated into CI pipelines for early defect detection.
 - Implemented SQL-driven backend verification to reduce manual validation effort and improve data accuracy.
 - Optimized pipelines for faster, parallelized automation runs and steadier releases.
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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 performance 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.

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.

Projects

AlCredits — [AlCredits.in](https://alcredits.in)

- Production LLM API gateway supporting multi-provider routing (OpenAI, Anthropic, and more) with a credit-based billing and usage tracking system.
- Designed end-to-end architecture including provider failover, cost tracking, and analytics.
- Built and deployed independently as a live production system.

MasterPrompting — [MasterPrompting.net](https://masterprompting.net)

- Free structured prompt engineering learning platform for ChatGPT, Claude, and Gemini.
- Curriculum-based tracks grounded in official OpenAI and Anthropic documentation.
- Covers zero-shot, few-shot, chain-of-thought, and structured prompting techniques.

PayViaUPI

- Personal project built using Next.js to generate shareable UPI links and dynamic QR codes for simplified P2P payments.

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.

Achievements & Certifications

- **ISTQB Foundation Certified** (Certificate No. 0098582, July 2019)

- **GenAI with Python** — ChaiCode (Nov 2025)
 - **Build Real World AI Apps with Gemini and Imagen** — Google (Apr 2025)
 - **Prompt Design in Vertex AI** — Google Cloud
 - 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
 - **Best Newcomer Award** — Orange Business Services (Apr 2023)
 - **Top Team Award** — Comviva (Jul 2022)
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Education

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