

Lal Krishna K B

Senior Software Development Engineer in Test (SDET)

Backend API Automation | UI Automation | Microservices Quality

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Professional Summary

Senior Software Development Engineer in Test (SDET) with **10+ years of experience** designing, building, and maintaining **high-quality automation solutions** for large-scale **web, mobile, and API-driven systems**. Deep expertise in **backend API automation using Python and Robot Framework**, along with **frontend UI automation using Selenium and Playwright**.

Currently working at **Flipkart**, contributing to quality engineering for **high-traffic e-commerce platforms and backend microservices**. Strong experience in **end-to-end test design, CI/CD-aligned testing, A/B experimentation validation**, and **automation-first quality strategies**. Proven collaborator with Product Managers, Backend Engineers, and DevOps teams to ensure **fast, stable, and reliable releases**.

Core Technical Skills

Programming & Automation

- Python
- Robot Framework
- Selenium
- Playwright

Testing Expertise

- Backend & API Automation
- REST API Testing and Validation
- Microservices Testing

- Frontend UI Automation (Web & Mobile Web)
- End-to-End Test Design
- Regression, Sanity, Smoke Testing
- Functional, Integration, and System Testing

Tools & Platforms

- Postman
- Git, GitHub
- VS Code
- Charles Proxy (Web & Mobile)
- Statsig (Experimentation & A/B Testing)

CI/CD & Methodologies

- CI/CD-aligned automation execution
 - Agile / Scrum
 - Release validation and quality sign-off
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Professional Experience

Flipkart — Bengaluru, India

Senior Software Development Engineer in Test (SDET)

Jan 2021 – Present

Senior SDET – Promotions (Jan 2025 – Present)

- Working as a **Senior QA Automation Engineer** in the Promotions team, responsible for backend quality of **offer creation and offer-serving microservices** used across Flipkart platforms.
- Validated **offer creation workflows**, configurations, and complex business rules at the backend level.
- Performed **API testing for offer-serving microservices** powering product, cart, and checkout journeys.
- Automated backend API test scenarios using **Robot Framework with Python**.
- Used **Postman** for API validation, debugging, and test design prior to automation.
- Designed **end-to-end backend test scenarios** covering functional, integration, and regression flows.
- Owned **test strategy, test design, and release quality sign-off** for promotions-related features.
- Acted as **quality owner**, collaborating closely with backend engineers, product managers, and release teams.

Senior SDET – Growth Hack Engineering (Jan 2021 – Dec 2024)

- Worked as a Senior QA Automation Engineer in the **Growth Hack Engineering** team, supporting experimentation-driven product development.
 - Validated **A/B experiments and feature behavior** across Web, Android, iOS, and mSite platforms.
 - Collaborated with Product Managers using **Statsig** for experiment configuration and rollout validation.
 - Performed functional, integration, and regression testing for experiment-driven features.
 - Automated **frontend UI test scenarios using Playwright with Python** to validate experiment flows and user journeys.
 - Ensured **experiment accuracy, data consistency, and production readiness** before large-scale rollouts.
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Swiggy — Bengaluru, India

Senior Software Quality Assurance Engineer in Test Sep 2019 – Jan 2021

- Owned frontend quality for **consumer-facing Web and Android applications**.
 - Validated **core user journeys and business-critical workflows**.
 - Performed detailed functional and regression testing across multiple releases.
 - Designed and maintained frontend test scenarios aligned with product requirements.
 - Converted manual UI test cases into **automated Selenium test scripts using Python**.
 - Built reusable automation flows to improve test coverage and reduce manual effort.
 - Collaborated closely with frontend engineers and product managers for release readiness.
 - Actively participated in Agile ceremonies, regression cycles, and production validations.
 - Contributed to the team's transition from **manual to automation-driven testing**.
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The Math Company — Bengaluru, India

Senior Software Quality Assurance Engineer Jun 2018 – Sep 2019

- Worked as a QA Consultant for **data analytics and business intelligence solutions** in the casino and gaming domain.
- Validated analytical dashboards and reports built on **large-scale datasets**.
- Ensured **data integrity, accuracy, and consistency** across dashboards by comparing source data with transformed outputs.
- Performed data flow validation across ingestion, processing, and visualization layers.

- Verified calculations, aggregations, filters, and visual representations.
 - Collaborated with data engineers, data scientists, and business stakeholders.
 - Identified data mismatches and reporting inconsistencies and worked with engineering teams to resolve them.
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Carmatec IT Solutions Pvt. Ltd. — Bengaluru, India

Senior Software Quality Assurance Engineer

Jun 2016 – Apr 2018

- Contributed to quality assurance across **multiple web and mobile applications**.
 - Worked across domains including Healthcare, Education (LMS), HR & Workforce Management, and Media platforms.
 - Performed end-to-end functional, system, and regression testing for applications built on **LAMP stack and Ruby on Rails**.
 - Executed manual testing for Android applications.
 - Designed test scenarios covering functional, integration, regression, and UAT flows.
 - Validated backend workflows, data consistency, and system behavior using API-level and database checks.
 - Actively participated in defect triage, re-validation, and release readiness activities.
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Asio Technologies — Bengaluru, India

Software Quality Assurance Engineer

Jan 2015 – May 2016

- Performed functional, integration, and regression testing for web and mobile applications.
 - Tested Android and iOS applications focusing on user journeys and frontend behavior.
 - Created and executed detailed test cases and test scenarios.
 - Worked in Agile environments supporting iterative releases.
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Business Owner — Thrissur, Kerala, India

Self-Employed

Dec 2011 – Dec 2014

- Managed operations across retail and service-based businesses including gold covering jewellery and media distribution.

- Handled business operations, customer management, and vendor coordination.
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Key Strengths & Achievements

- 10+ years of progressive experience in **QA** → **Senior SDET** roles
- Strong ownership of **backend microservices quality**
- Deep experience in **A/B experimentation and growth systems**
- Proven ability to drive **automation-first quality strategies**
- Excellent collaboration with Product, Engineering, and DevOps teams
- Hands-on contributor and quality owner for large-scale production systems

ACADEMIC QUALIFICATIONS

Graduated in Electrical & Electronics Engineering from
“The Oxford College Of Engineering, Bangalore”.

PERSONAL DETAILS

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