

Singadiwar Akshay Reddy

SDET | Test Automation Engineer

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Profile

Test Automation Engineer with 5.1 years of experience in FinTech and payment systems, currently working on BHIM (NPCI). Strong expertise in mobile, web, and API automation using Appium, Cypress, Selenium, and Rest Assured, with hands-on experience building automation frameworks and optimizing CI/CD pipelines. Proven ability to ensure high-quality releases in large-scale, high-traffic applications through effective debugging and close collaboration with cross-functional teams.

Professional Experience

Test Engineer, *National Payments Corporation of India (NPCI)*

11/2024 – present
Hyderabad, India

BHIM (Bharat Interface for Money)

- Ensured quality and stability of the BHIM payment application by designing and executing comprehensive manual and automated test scenarios across web and mobile platforms.
- Developed and maintained automation scripts using **Appium** for Android/iOS applications and **Selenium WebDriver (Java)** for assigned web modules, improving regression coverage and execution efficiency.
- Designed and executed **REST Assured** API automation tests to validate backend services, ensuring seamless integration between UI, APIs, and backend systems.
- Worked on the **EV module hosted on AWS**, validating cloud-based application workflows, backend integrations, and end-to-end functionality while collaborating with cross-functional Agile teams.
- Supported the setup of an on-premise mobile device test grid and evaluated **BrowserStack** and **LambdaTest** cloud platforms for scalable mobile automation execution.
- Leveraged AI tools including **ChatGPT, Claude, and Google Gemini** to accelerate test case creation, automation development, debugging, and framework enhancements, improving overall QA productivity.

Test Analyst, *Bitwise Solutions Pvt. Ltd.*

06/2021 – 10/2024
Pune, India

Digital Servicing Muon – Customer Support Framework (TSYS)

Jul 2023 – Oct 2024

- Developed a Cypress-JavaScript automation framework with Cucumber, enabling scalable parallel execution.
- Performed API and database testing using REST Assured, Oracle, and JDBC to ensure data integrity.
- Enhanced Jenkins CI/CD pipelines and customized test reporting solutions.

Data Sync Migration (TSYS)

Feb 2023 – Jul 2023

- Validated large-scale data migration from on-premises systems to AWS platforms.
- Executed end-to-end testing using Java, Selenium, DynamoDB, and Oracle databases.
- Developed utilities for Avro-to-JSON conversion and automated test data generation.

Merchant Portal – Global Payments

Jun 2021 – Feb 2023

- Owned end-to-end testing and automation for a global merchant management platform using Selenium and Java.
- Validated data consistency across BigQuery, MySQL, and Firestore databases.
- Automated regression suites through Jenkins and executed cross-browser testing using Sauce Labs.
- Collaborated in Agile sprints using Rally and mentored junior QA engineers.

Skills

Testing Frameworks & Tools:

Appium, Cypress, Selenium, Rest Assured, Playwright, TestNG, JUnit, Cucumber BDD, Postman, Automated Testing, Manual Testing

CI/CD:

Jenkins

Databases

OracleDB, MySQL, DynamoDB, Google BigQuery

Cloud Platforms:

AWS, Google Cloud Platform

Programming Languages:

Java, JavaScript, C, SQL

OS:

Mac OS, Windows, Linux

API & Backend Testing Exposure

RESTful API Testing, Spring Boot (Basic), JPA / Hibernate (Data Validation), Microservices Basics, Redis (Caching)

Version Control:

Git, GitHub, GitLab, BitBucket

Messaging & Streaming:

Kafka

Containerization:

Docker

Project Management & Tracking:

Jira, Rally

Other Tools:

SauceLabs, Agile

Projects

Aapli Chawdi Digital Alert | Personal Project

- Developed a Spring Boot-based platform to monitor Maharashtra land mutation notices and deliver real-time Telegram alerts. Telegram Bot: **@AapliChawliBot**
- Automated data extraction from government portals using Playwright and scheduled monitoring workflows.
- Integrated Google Gemini AI for captcha solving and notice summarization.
- Built REST APIs and MySQL-backed services, deploying the application using Docker and AWS.

Education

Bachelor of Engineering - Computer Science,

Guru Nanak Institute of Engineering & Technology, Nagpur (RTMNU)

CGPA : 9.19

07/2017 – 06/2021

Nagpur, India

Awards

Certificate of Recognition, NPCI/BHIM

Awarded for contribution to quality and stability of the BHIM application.

13/11/2025

Excellence Award, Bitwise Solutions Pvt. Ltd

- Awarded "Excellence Award" for my Passion, Innovation, and Creativity

15/10/2023