

Om Balvant Shinde

Automation Engineer

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PROFILE

Results-driven SDET with experience building automated testing frameworks using Java, Selenium WebDriver, TestNG, and Gradle. Skilled in the Page Object Model design pattern, CI/CD integration, and leveraging AI tools like GitHub Copilot and LLM APIs to accelerate test development and improve code quality. Proven ability to deliver scalable, end-to-end test suites with a forward-looking interest in AI-driven testing approaches.

TECHNICAL SKILLS

Languages

Java, Python and JavaScript

Test Automation

Selenium WebDriver, Karate, RestAssured, TestNG, Postman, Page Object Model (POM), Data-Driven Testing, API Testing

Tools & DevOps

Docker, Git, GitHub Actions, Jenkins, AWS, Firebase, Maven, Gradle

Databases

MongoDB, MySQL

PROFESSIONAL EXPERIENCE

QualityKiosk Technologies Pvt. Ltd

Automation Engineer

12/2024 – Present | Mumbai

- Designed and implemented a scalable API Automation Framework from scratch using Java, RestAssured, and TestNG, enabling reliable large-scale regression execution.
- Developed a custom SMS Reading Application to handle OTP-based authentication flows, eliminating manual intervention in critical test scenarios.
- Integrated automation suite into CI/CD pipeline using Jenkins and Git, improving release velocity, execution visibility, and pipeline stability.
- Built reusable utilities, helper components, and data-driven test strategies, significantly reducing test development time and code duplication.
- Reduced flaky tests through targeted environment integration, bug isolation, and robust test design practices.

Automation Engineer Intern

01/2024 – 12/2024 | Mumbai

- Automated end-to-end insurance workflows including policy generation, user login, form validation, and dashboard navigation using Selenium WebDriver.
- Enhanced and optimized existing automation scripts, improving execution speed and long-term maintainability.
- Designed data-driven test cases with modular code structure to support scalability across evolving test requirements.

EDUCATION

B. Tech, D. Y. Patil College of Engineering & Technology, Kolhapur

2020 – 2024 | Kolhapur

- CGPA - 8.9

PROJECTS

RAG-Based Framework Intelligence Assistant | Python, ChromaDB, Groq (LLaMA 3.1), SentenceTransformers, RAG

- Built a Retrieval-Augmented Generation (RAG) system that makes LLMs answer questions strictly based on your automation framework's actual source code — eliminating hallucinated methods and incorrect POM assumptions.
- Implemented method-level chunking of Java framework files, generated semantic embeddings using SentenceTransformers (all-MiniLM-L6-v2), and stored them in a persistent ChromaDB vector database for fast, context-aware retrieval.
- Integrated Groq's LLaMA 3.1 with strict grounding constraints — if something isn't implemented in the framework, the assistant responds "Not implemented" rather than fabricating an answer.
- Designed a clean RAG pipeline: source code → chunking → embeddings → Top-K semantic retrieval → grounded LLM response, supporting queries like POM structure validation, retry logic checks, and WebDriver setup.

AI-Powered Test Recorder & Code Generator (In Progress) | Java, Selenium, Python, Groq (LLaMA 3.1), ChromaDB, TestNG, Maven

- Building an intelligent system that records manual browser interactions and auto-generates production-ready Java Selenium TestNG test cases using AI, eliminating hand-written boilerplate entirely.
- Architected a 4-phase pipeline: framework setup → browser recording → AI action-to-method mapping → TestNG class generation, using ChromaDB + LLaMA 3.1 to ensure POM-aligned, hallucination-free code output.
- Bridges manual exploratory testing and automated code generation — enabling non-technical testers to produce framework-consistent test scripts through simple browser recording.

OTP Retriever — Custom SMS Reader, Java, Selenium, Android, Firebase

- Built a Custom SMS Reading Android application that auto-reads incoming OTPs and pushes them to Firebase in real-time, enabling fully hands-free OTP handling in web automation workflows.
- Designed a 5-step automation pipeline: UI triggers OTP → Android app captures SMS → Firebase stores OTP → Selenium fetches and enters it → test proceeds without interruption.
- Eliminated manual OTP entry entirely, achieving 100% autonomous test execution for OTP-based authentication flows common in banking and insurance applications.

AWARDS

Customer Champion, QualityKiosk Technologies

2025

- Recognized for exceptional delivery on the ICICI Lombard General Insurance project — specifically for building a scalable API Automation Framework from scratch that directly improved client confidence, regression reliability, and release velocity.

Infant Spotlight, QualityKiosk Technologies

2024

- Awarded as a standout new joiner for exceptional ramp-up speed, proactive contributions to test automation, and demonstrating ownership of real-time project deliverables within the first months of joining the organization.