Dhiman Dasgupta

✉ dasguptadhiman5@gmail.com — ☎ +91-8823831336 — 🔗 LinkedIn — ⌘ GitHub

Professional Summary

SDET with 2+ years of experience building scalable, CI/CD-driven automation frameworks for Web, Mobile (Android/iOS), and API platforms. Strong expertise in Java, Selenide/Selenium, Appium, REST Assured, and GitHub Actions, with a focus on framework design, test stability, and scalable CI-driven execution. Proven track record of reducing regression cycles, increasing automation coverage, and delivering high-quality releases with near-zero production defects in fast-paced Agile product teams.

Core Competencies

- **Languages:** Java, C/C++, SQL
- **Automation Frameworks:** Selenium WebDriver, Selenide, TestNG, Maven, Apache POI
- **API Testing:** REST Assured, Postman
- **Mobile Testing:** Appium (iOS & Android), LambdaTest
- **CI/CD & Tools:** Git, GitHub
- **AI Tools:** GitHub Copilot
- **Testing Practices:** Agile Testing, Regression Testing, Sanity Testing, Data-driven Testing, JIRA for defect tracking

Work Experience

Cognizant Technology Solutions   Bengaluru, India
Software Development Engineer in Test (SDET)   Sep 2023 – Present

- **Owned end-to-end quality engineering** for AI based Web, **Mobile (Android/iOS), and API platforms** in a client-facing product environment, ensuring stable monthly releases and high-quality user experience across platforms.
- Designed and maintained **unified automation frameworks (Web + Mobile + API)** using **Selenide, Appium, and REST Assured**, reducing regression execution time by **34 hours per cycle** while improving overall test reliability.
- Increased automation coverage by **30%** by identifying high-impact user flows and edge cases using usage analytics and **AI-assisted scripting**, while reducing long-term maintenance through structured refactoring and clean code practices.
- Built and enhanced **CI/CD pipelines using GitHub Actions** with parallel execution, automated validation, and **Allure-based reporting**, while designing reusable utilities, request builders, response validators, and configuration layers using clean OOP principles.
- Implemented scalable mobile automation using **LambdaTest platform**, ensuring cross-device and **cross OS coverage for Android and iOS** applications.
- Proactively prevented production defects by combining **robust automated regression, exploratory testing, and effective defect triaging via JIRA**, maintaining a near-zero production defect rate across releases.

Key Projects

Flipkart End-to-End Test Automation Framework   [View on GitHub]
Java, Selenium, Selenide, TestNG, Maven, GitHub Actions, Allure

- Engineered a **production-grade UI automation framework** simulating real Flipkart user journeys.
- Implemented **CI/CD pipelines with headless execution, rich Allure reporting**, and automated failure analysis.
- Applied advanced synchronization, conditional validations, and POM architecture to eliminate flaky tests.
- Enabled **environment-based execution** and scalable test orchestration to simulate real CI production pipelines.
- Designed the framework to demonstrate **real-world SDET best practices** and CI maturity.

End-to-End API Automation Framework (DummyJSON)   [View on GitHub](#)
Java, Rest Assured, TestNG, GitHub Actions, Allure
– Architected a **scalable, maintainable API automation framework** to validate end-to-end backend workflows across Products, Users, Carts, and Orders, mirroring real production microservices.
– Integrated **CI/CD pipelines using GitHub Actions** with headless execution, failure triaging, and automated test reporting.
– Produced **diagnostic-rich Allure reports** with request/response payloads and assertion details to accelerate defect root-cause analysis.

Education

Bhilai Institute of Technology, Durg (CSVTU)   Jul 2023
B.Tech in Electronics & Telecommunication, CPI: 9.03

Delhi Public School, Bhilai (CBSE)   May 2019
Senior Secondary Education (Class 12th), Percentage: 81.4%

Certifications

Selenium Automation — API Automation — Mobile Automation - Udemy
Selenium Practitioner - Cognizant