

# Mukul Dev Mahato

Pune, Maharashtra | +91-7033380645 | mukul.com12@gmail.com

[LinkedIn](#) | [Portfolio](#)

## Professional Summary

**Test Automation | CI/CD | API Testing | Cloud | Agile**

SDET with 3+ years of experience in **banking** and **insurance** projects, building **robust automation frameworks**, validating APIs and **ETL pipelines**, and ensuring software quality in CI/CD environments. Recognized with a **GEM Award** for contributions to a major **insurance client (WTW)**. Skilled in **Selenium, Playwright, Postman, Jenkins, and Agile practices**.

## Skills & Technologies

**Testing Tools:** Selenium WebDriver, TestNG, Cucumber, Playwright, Jira, Confluence, Postman, Rest Assured, SoapUI

**Programming/Scripting:** Java, TypeScript, Python **Database Testing:** ETL Testing, SQL, MySQL **CI/CD:** Jenkins

**Version Control:** Git, GitHub **Methodologies:** Agile, Scrum **Other:** GitHub Copilot, Maven, Apache POI, Azure DevOps, Docker

## Work Experience

Capgemini | Pune, Maharashtra, India, **Senior Software Engineer** | June 2022 – Present

- Spearheaded automation testing for **Banking** and **Insurance** clients including **WTW (Willis Towers Watson)**, resulting in **40% faster regression cycles** via **Java Selenium/TestNG/Cucumber**.
- Performed comprehensive **ETL testing** for critical financial database validations and data integrity checks, identifying and resolving **150+ discrepancies** to ensure accuracy and consistency across large datasets for the **MUFG** client.
- **Accelerated deployment validation by 30%** through the integration of automated test suites into CI/CD pipelines (Jenkins, Azure DevOps).
- Worked extensively with **Postman** and **SOAP UI** for backend testing, creating and executing **130+ API test scripts** across **3 applications in Postman** and **2 applications in SOAP UI**, validating **XML responses** and **API endpoints** to ensure **data accuracy** and **service reliability** for **BNPP** client.
- Collaborated effectively with cross-functional development and product teams to define test strategies, **increasing test coverage by 20%** and **improving overall software quality**, leading to a **15% reduction in production defects**.
- Utilized **GitHub Copilot and generative AI** to accelerate the development of a scalable **test automation framework** and **boosting code generation efficiency by 25%** and enhancing overall testing speed.
- Executed thorough manual testing (functional, regression, UAT) across **20+ new features and releases**, identifying critical defects and **contributing to a 15% reduction in post-launch issues**.
- Developed detailed test plans and over **500+ test cases** for comprehensive coverage, effectively tracking defects to closure in Azure DevOps and **reducing bug resolution time by 15%**.

## Projects

### [OpenMRS02](#)

- **Technologies Used:** Java 23, Selenium WebDriver, Cucumber, TestNG, Maven, JSON, Extent Reports, Git
- Built a Selenium-Cucumber-TestNG-based framework with parallel execution, significantly reducing test runtime by 40%.
- Enabled headless mode and cross-browser testing (Chrome, Edge) to ensure 100% compatibility across different environments.
- Integrated **Extent Reports** with detailed logs, cutting debugging time by 50% and improving defect resolution efficiency.
- Implemented **JSON**-based data management, enhancing framework scalability and maintainability by 60%.

### [SauceDemo Playwright TS Solution](#)

- **Technologies Used:** Playwright, TypeScript, HTML Reporter, JSON, Git
- Developed a scalable end-to-end test automation framework using Playwright with TypeScript, achieving a 70% reduction in test execution time through parallel testing.
- Implemented the **Page Object Model (POM)** design pattern, enhancing code maintainability and reducing duplication by 60%.
- Integrated **HTML reporting** and trace viewer for comprehensive test result analysis, decreasing debugging time by 50%.
- Utilized JSON-based fixtures for dynamic test data management, improving test scalability and reusability.

## Education

Bachelor of Technology | Mechanical Engineering | Techno India College of Technology, Kolkata, West Bengal | 2017 – 2021

## Certifications & Achievements

[GEM Award Winner – Recognized for E2E Certificates \(WTW\), Capgemini \(Oct 2024\)](#) | [QAT - Grade A, Capgemini \(2024\)](#) |  
[Global Banking Level 2 Certification, Capgemini \(2024\)](#)