

Mukul Dev Mahato

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[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%**.
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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.
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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 \(2024\)](#)