

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** 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 and Agile practices**.

Skills & Technologies

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

Programming/Scripting: Java, TypeScript, Python, SQL **CI/CD:** Jenkins **Testing Types:** Functional, Regression, E2E, API, UI

Version Control: Git, GitHub **Methodologies:** Agile, Scrum **AI & LLM Tools:** GitHub Copilot, Prompt Engineering, mabl **Other:** 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**.
 - Accelerated deployment validation by 30%** through the integration of automated test suites into CI/CD pipelines (Jenkins, Azure DevOps).
 - Migrated legacy Selenium suite to Playwright (TypeScript), achieving a 70% reduction in execution time and improved test maintainability.
 - 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.
 - 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**.
 - 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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Key Projects

[EventStream E2E Validator — Playwright + Kafka Event Automation Framework](#)

- Technologies Used:** Playwright, TypeScript, HTML Reporter, Docker, Apache Kafka, Git
- Built an end-to-end event validation framework where simulated **Playwright** UI actions trigger Kafka events for backend verification. Implemented **KafkaJS** consumer + **AJV** schema checks to validate event payload integrity and ensure UI → event → backend consistency. Added Docker-based Kafka environment and modular TS architecture for CI-ready execution.

[BOSCH Power Tools – Playwright E2E Automation Suite](#)

- Technologies Used:** Playwright, TypeScript, HTML Reporter, JSON, Git
- Developed a robust Playwright automation suite for Bosch Tools US covering core web journeys and product flows. Added **POM** architecture, multi-browser support, and responsive validation across major engines. Automated end-to-end flows: homepage, search, filtering, PDP validation, and dealer locator workflows.

[OpenMRS02](#)

- Technologies Used:** Java 23, Selenium WebDriver, Cucumber, TestNG, Maven, JSON, Extent Reports, Git
 - Built a parallel Selenium–Cucumber–TestNG framework with cross-browser and headless execution. Integrated Extent Reports and JSON-driven data handling for improved debugging and scalability.
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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 \(2024\)](#) | [mabl Skills Certification: Foundations \(2025\)](#)