

Mukul Dev Mahato

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

Profile

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

Software Development Engineer in Test (SDET) with 3 years of experience in building scalable test automation frameworks, integrating tests into CI/CD pipelines, and enhancing software reliability through DevOps practices. Skilled in test automation, API testing, cloud technologies, and Agile methodologies.

Skills & Technologies

- **Test Automation:** Selenium, Playwright, Cucumber, TestNG
- **API Testing:** REST Assured, Postman, REST API, API Mocking
- **Mobile Testing:** Appium
- **CI/CD & DevOps:** Jenkins, Docker, Git, Azure DevOps
- **Cloud & Cross-Browser Testing:** Microsoft Azure, LambdaTest, SauceLabs
- **Programming:** Java, Python, JavaScript, SQL
- **Agile & Project Management:** Scrum, Kanban, JIRA

Professional Experience

Senior Software Engineer

Capgemini, Pune, Maharashtra | 2022 – Present

- Designed scalable test automation frameworks achieving 80%+ test coverage.
- Automated 95% of regression testing, reducing manual effort and boosting efficiency.
- Built Java-based automation for webApp and API.
- Integrated tests into CI/CD pipelines (Jenkins, Azure DevOps), cutting deployment validation time by 30%.
- Developed REST API automation for 500+ backend services, ensuring stability and security.
- Improved flaky test reliability by 40% through enhanced automation practices.
- Applied system design principles to create secure, scalable, and maintainable frameworks.
- Executed Agile-aligned test strategies, managing defects and execution via JIRA and Azure DevOps, reducing post-release defects by 30%.
- Contributed to sprint planning, test execution, and process refinement in Agile teams.

Projects

CURA Healthcare Services Solutions: [Code](#)

- Built a Selenium-based framework with parallel execution, reducing test runtime by 40%.
- Enabled headless mode and cross-browser testing (Chrome, Firefox, Edge) for 100% compatibility.
- Integrated Extent Reports with detailed logs, cutting debugging time by 50%.
- Used JSON-based data management, improving scalability and maintainability by 60%.

Tools: Java 21, Selenium WebDriver, TestNG, Maven, JSON, Extent Reports, Git

SauceDemo Playwright TS Solution: [Code](#)

- 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.
- Configured the framework for cross-browser testing (Chrome, Edge, Webkit), ensuring 100% compatibility across major browsers.

Tools: Playwright, TypeScript, HTML Reporter, JSON, Git

Education

Bachelor of Technology (B. Tech), 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](#)
- [Agile Software Development Certification](#)
- [Global Banking Level 2 Certification](#)

Passion & Goal

Dedicated to continuous learning and innovation in test automation, DevOps, and cloud-based solutions. Focused on scaling frameworks and optimizing strategies for high-quality software delivery.