

# Souvik Chatterjee

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## PROFESSIONAL SUMMARY

Senior Quality Engineer / SDET with **nearly 5 years** of experience building scalable **test automation frameworks** using **Playwright (TypeScript)** and Selenium (Java). Expertise in E2E testing, API testing, CI/CD integration, framework architecture, STLC, Agile delivery, and test reliability engineering. Delivered **90% faster regression execution** and **98% test stability** through parallel execution and hybrid UI+API automation. Designed and deployed an **Agentic AI automation solution** using multi-agent architecture, GitHub Copilot, and Playwright MCP servers — reducing test development effort by **75%** across enterprise web applications.

## TECHNICAL SKILLS

**Test Automation:** Playwright (TypeScript), Selenium WebDriver (Java), Cucumber (BDD), Rest Assured

**Programming Languages:** TypeScript, JavaScript, Java, Python

**Testing Expertise:** E2E Testing, API Testing, Regression, Smoke, Sanity, Cross-Browser Testing, STLC, Defect Lifecycle Management

**Framework & Architecture:** Page Object Model (POM), Hybrid UI+API Frameworks, Fixtures, Reusable Utilities, Modular Framework Design

**Optimization:** Parallel Execution, Sharding, Auto-waits, Retry Logic, Custom Reporters

**CI/CD & DevOps:** Azure DevOps, GitHub Actions, Jenkins, CI/CD Pipelines, PR Validation

**Agentic AI & AI-Assisted Testing:** GitHub Copilot, Playwright MCP Servers, Multi-Agent Automation Workflows

**Reporting & Debugging:** Allure Reports, JUnit XML, HTML Reports, Trace Viewer

**Tools & Platforms:** Postman, Bruno, BrowserStack, Perfecto, Jira, MySQL

**Domains:** Insurance, Retail

## EXPERIENCE

### LTIMindtree (now LTM Limited) — Senior Quality Engineer

Dec 2024 – Present

- Delivered QA automation across two concurrent client applications — a **Hybrid UI+API** engagement and a **pure E2E** Playwright engagement — with equal ownership of both.
- Architected enterprise-grade Playwright **test automation framework** in TypeScript using POM, fixtures, reusable utilities, and hybrid UI+API automation flows.
- Reduced regression execution time by **90%** through parallel execution and optimized locator strategies.
- Achieved **98% stability** via retry mechanisms, automatic trace capture and structured failure diagnostics.
- Integrated CI/CD automation using Azure DevOps pipelines with PR validation and cross-browser execution.
- Accelerated test scripting efficiency by integrating GitHub Copilot for AI-assisted test development and automated refactoring.
- Eliminated flaky test failures by deploying Playwright MCP servers to resolve complex dynamic locator scenarios.
- Engineered an Agentic AI automation solution using multi-agent architecture, GitHub Copilot, and Playwright MCP integration — reducing test development effort by **75%**; recognized as an LTM product and appreciated by both client and LTM leadership.
- Mentored 8+ engineers and conducted code reviews to improve automation quality standards.

### Cognizant Technology Solutions — Associate

Aug 2021 – Dec 2024

- **Career Progression:** Programmer Analyst Trainee → Programmer Analyst → Associate
- Developed automation suites using Playwright (TS) and Selenium (Java) with TestNG, POM and Cucumber.
- Delivered **85% automation coverage** across UI/API layers for enterprise Retail and OMS platforms.
- Built reusable utilities, dynamic waits and API validation modules to improve maintainability.
- Validated cross-browser compatibility across Chrome, Firefox, and Safari using BrowserStack and Perfecto.
- Owned sprint QA planning, defect triage, and regression lifecycle across Agile delivery cycles.

## CERTIFICATIONS

ISTQB® Certified Tester Foundation Level v4.0 (April 2026)

Microsoft Azure Fundamentals

Google Cloud – Generative AI

HackerRank Certifications: Java, JavaScript, Python, SQL

## EDUCATION

Techno Main Salt Lake, Kolkata

B.Tech in Civil Engineering

2017 – 2021

DGPA: 8.73