

NEHA MALI

Software Development Engineer in Test | Java | Selenium | API Automation | CI/CD
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SUMMARY

Software Development Engineer in Test with 3 years of experience building UI and API automation frameworks for high-volume payment systems. Experienced in AI-powered testing and CI/CD, reducing manual regression effort while improving release quality.

SKILLS

- Languages: Java, Python, SQL
- Automation: Selenium, RestAssured, TestNG, Postman, Playwright
- Frameworks & Testing: Hybrid Framework, Page Object Model (POM), Data-Driven, API Testing, UI Testing
- AI & CI/CD: Claude API, Playwright MCP, Jenkins, GitHub Actions, Git
- Tools: JIRA, Splunk, MySQL, Kafka

WORK HISTORY

Visa - Software Development Engineer in Test - Austin, Texas February 2022 - October 2024

- Designed and maintained Java-based UI and API automation using Selenium and RestAssured across 20+ API endpoints and web workflows for a high-volume payment platform.
- Reduced flaky test failures by ~30% through root-cause analysis and synchronization improvements, improving CI reliability and reducing false failures during release cycles.
- Validated end-to-end payment notification workflows by verifying UI behavior, REST API responses, Kafka events, and backend database records using SQL, ensuring accurate notification delivery before production releases.
- Integrated automated test suites into Jenkins CI/CD pipelines, enabling continuous test execution and reducing manual regression effort across Agile sprint cycles by 40%.
- Monitored application health using Grafana dashboards and Splunk queries, investigated production issues, and supported release readiness.

CSC Generation - Software Engineer - Austin, Texas July 2021 - February 2022

- Analyzed application and product data using Python and SQL to support feature development and data-driven decisions.
- Collaborated with engineering and product teams to investigate application behavior and validate functionality within Agile sprint cycles.

INDEPENDENT ENGINEERING PROJECTS

AI API Test Generation Framework April 2025 - June 2025

- Built a Java-based AI-powered API testing framework using Claude API to automatically generate API test cases from endpoint specifications.
- Generated 100+ functional, negative, and edge-case API test scenarios across 10 endpoints, reducing test-design time by 60% compared with manual test creation.
- Developed automated API test suites using RestAssured and TestNG to validate response payloads, status codes, and error handling.
- Integrated a CI/CD pipeline using GitHub Actions to trigger test execution on every code push with automated HTML report generation.

AI Self-Healing Test Framework August 2025 - October 2025

- Developed an AI-powered self-healing test framework using Playwright MCP and Claude API to detect and repair broken UI selectors, reducing manual maintenance required for automated UI tests.
- Enabled Claude to inspect webpage structure through Playwright MCP and identify alternative element locators when UI changes caused test failures.
- Implemented Allure reporting to capture selector healing events, failure diagnostics, and execution history for improved test observability.
- Automated test execution and report generation using GitHub Actions for every code push.

EDUCATION

Purdue University - West Lafayette, Indiana January 2026 - Expected December 2026
Master of Business and Technology

University of Texas at Arlington - Arlington, Texas August 2019 - May 2021
Master of Science in Computer Science

Finolex Academy of Management and Technology - Mumbai, India July 2013 - May 2017
Bachelor of Engineering in Electronics & Telecommunication