

ADITYA NARAYAN MISHRA

Senior Software QA Engineer (SDET)

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PROFESSIONAL SUMMARY

Senior SDET with 6+ years of experience in UI, API, and backend automation testing across Supply Chain and Finance domains. Expertise in Playwright, Selenium, Java, TypeScript, API automation, CI/CD pipelines, and cloud-native application validation. Proven experience scaling and building automation frameworks, reducing flaky tests, improving regression efficiency, and integrating AI-assisted automation workflows. Skilled in Kubernetes, AWS, Jenkins, and distributed Agile delivery environments.

KEY ACHIEVEMENTS

- Migrated 1000+ Selenium test cases to Playwright, reducing execution time by 50% and flaky failures by 80%.
- Built scalable automation infrastructure supporting parallel and distributed execution workflows.
- Reduced regression effort by 60% through CI/CD-integrated automation pipelines.
- Developed AI-assisted testing workflows using MCP and autonomous agents for automated test generation.

EXPERIENCE

Senior QA Engineer | e2open, Hyderabad, India | Sep 2024 – Present

Domain: Supply Chain — S&OP, Demand Sensing, Planning & Response, Demand Planning, NGDS

- **Test Planning & Coverage** — Defined and owned test plans and quality metrics for 6+ Supply Chain Planning modules (S&OP, Demand Sensing, NGDS, Demand Planning); maintained a suite of 500+ automated test cases covering UI, API, and database validation layers, achieving 90%+ regression coverage on critical planning workflows.
- **Domain Expertise — Planning Applications:** Built deep functional expertise in S&OP, Demand Sensing, Planning & Response, and Demand Planning workflows; validated complex business rule logic, NGDS data pipelines, planning algorithm outputs, and end-to-end planning cycle behaviours across 8+ integrated application modules.
- **Business Rule & Data Validations** — Designed 100+ backend and database validation scripts (MSSQL & Oracle) to verify business rule enforcement, demand forecast accuracy, and data consistency across planning system integrations — catching critical data regression bugs before production releases.
- **Kubernetes & Cloud Validation** — Validated application deployments across Kubernetes-managed environments on GCP and AWS (EC2, EKS, ECR, Lambda); ensured post-deployment functional correctness across 8+ Supply Chain Planning services in cloud-hosted environments.
- **AI-Powered Automation** — Leveraged Claude, GitHub Copilot, and custom MCP integrations (Playwright MCP, JIRA MCP) to automate end-to-end test development workflows; achieved 3x faster automation script creation, reducing backlog automation timelines by ~65% compared to manual development.
- **Framework Engineering** — Scaled and optimized automation frameworks to support thousands of parallel test executions with reduced flaky failures, improved execution stability, and higher regression coverage. Implemented execution observability services for centralized reporting, metrics tracking, and trend analysis.
- **Framework Engineering** — Architected reusable automation architecture components supporting distributed execution, parallel runs, centralized reporting, and scalable CI/CD integration across multiple applications.
- **Framework Migration — Selenium to Playwright:** Led full migration of UI automation framework from Selenium (Java) to Playwright (TypeScript) across 500+ test cases; achieved 30–50% reduction in test execution time and reduced flaky test failures by ~80%, significantly improving release confidence and CI feedback speed.

QA Engineer | e2open, Hyderabad, India | Jan 2022 – Sep 2024

Domain: Supply Chain — S&OP, Demand Planning, Planning & Response

- **STLC Execution:** Designed and executed quality engineering strategies across 5+ Supply Chain Planning applications, including test design, automation development, defect analysis, regression validation, and release verification within Agile delivery cycles.
- **Defect Management & Bug Life Cycle** — Reported and tracked 150+ defects per major release using JIRA and Xray — including detailed reproduction steps, severity/priority classification, environment tagging, and fix verification. Maintained a defect closure rate of 95%+ within the same sprint for P1/P2 issues.
- **Automation Development** — Engineered and maintained 300+ automated test scripts for regression and functional testing using Selenium WebDriver (Java); contributed Page Object Model components and reusable utilities adopted across 4+ QA projects within the org.
- **API & Backend Validation** — Implemented API automation using Karate Framework for 50+ backend planning workflow endpoints; conducted MSSQL and Oracle database validation scripts, reducing manual data verification effort by 40%.
- **CI/CD Integration** — Integrated Selenium-based test suites with Jenkins CI pipelines; automated regression suite execution on nightly builds, cutting manual regression time from ~3 days to under 6 hours per release cycle.

Computer Trainee | Wipro, Chennai, India | Jul 2019 – Dec 2021

Domain: Finance — Financial Advisory and Brokerage Applications

- **STLC Fundamentals** — Executed complete STLC phases — requirements review, test case design, test execution, defect reporting, re-testing, and test closure — within Agile and Waterfall delivery models for Finance domain web applications, contributing to 5+ release cycles.
- **Domain Experience — Finance:** Tested Financial Advisory and Brokerage applications covering portfolio management, advisory reporting, trade transaction flows, and brokerage account operations; validated accuracy of financial calculations and reporting data across 3+ application modules.
- **Testing Execution** — Performed manual Functional, Smoke, Sanity, and Regression Testing; authored and executed 100+ test cases per release cycle across multiple environments, ensuring functional correctness of financial application workflows.
- **Defect Tracking** — Documented and tracked 80+ defects across 5 release cycles using defect management tools — capturing reproduction steps, expected vs. actual results, environment details, and severity ratings. Participated in defect triage meetings and re-tested bug fixes within agreed SLAs.
- **Collaboration & Reporting** — Collaborated with a 5-member QA team and cross-functional stakeholders; contributed to test status reports summarizing execution progress, defect metrics, and coverage summary for team leads and project managers.

PROJECTS

API Automation for Backend Workflows

- Implemented API automation using Karate Framework for 50+ critical backend Supply Chain Planning workflow endpoints; reduced dependency on UI-based tests by 35% and improved test execution speed by 2x for backend validation cycles.

AI-Powered Chatbot for Application Feature Support

- Collaborated on design and implementation of an internal AI-powered chatbot leveraging Retrieval-Augmented Generation (RAG) to index internal help documentation; reduced support query resolution time by 40% by providing contextual, accurate self-service responses to end users.

AI-Powered Finance Tracker

Designed and developed a full-stack personal finance tracking application using Spring Boot, Next.js, and PostgreSQL with AI-assisted expense management, voice-based expense logging, AI-driven categorization, interactive financial dashboards, and end-to-end automation validation workflows covering UI, API, and database testing using Playwright and backend testing tools. URL: <https://effintrak.adityanarayanmishra.in>

ACHIEVEMENTS

API Comparison and Bug-Tracking Solution

- Designed and developed an API comparison and bug-tracking solution during an internal hackathon to identify behavioural differences between DEV and PROD environments using Rest-Assured; identified 15+ environment-specific defects in a single test run. Achieved 2nd place for innovation and technical execution.

Browserstack Tools Implementation

Implemented end-to-end Test Case Preparation to Test Automations and Reporting with Browserstack tools in a Hackathon and placed second.

End to End Test Case Preparation to Test Automation using Agents with the help of skills and MCPs

Developed AI-assisted testing workflows using custom MCP servers and autonomous agents to generate feature context, derive test cases from PRDs, classify tests using the testing pyramid model, generate unit tests, and create Playwright automation scripts integrated into existing frameworks.

SKILLS & TECH STACK

Languages -- Java, TypeScript, JavaScript, Python, SQL

Automation -- Playwright, Selenium, Karate, REST-Assured, TestNG, JUnit5, Cucumber

CI/CD & DevOps -- Jenkins, Bamboo, Docker, Kubernetes, Terraform

Cloud -- AWS (EKS, ECR, Lambda, EC2), GCP

Databases -- MSSQL, Oracle

AI & Automation -- MCP, Claude, GitHub Copilot, AI-assisted testing workflows

EDUCATION

Bachelor of Science (Physics) — Bhadrak Autonomous College | July 2019