Ashakiran Jyoti

+91 9284344460 | ashakirandjoti5501@gmail.com | linkedin.com/in/ashakiran-jyoti | github.com/ashakiranjyoti

Professional Summary

QA Automation Engineer with 2+ years of experience in Playwright automation and manual testing. Proven track record on enterprise projects including AMRUT 2.0 (Government of India) and Inventory Management System (IMS). Expert in writing scalable automation scripts using Page Object Model, designing comprehensive manual test cases, and identifying critical security and data integrity bugs. Strong advocate for AI-assisted workflows while maintaining strict data privacy standards.

Technical Skills

Test Automation: Playwright (JavaScript/TypeScript, v1.40+), Page Object Model, Data-Driven Testing
Manual Testing: Test Case Design, Functional Testing, Regression Testing, BVA, Equivalence Partitioning, RBAC Testing, Exploratory Testing
API Testing: REST APIs, Playwright Request Context, Postman, Schema Validation, CRUD Testing, Postman
Tools & Platforms: Git, GitHub, GitHub Actions, GitLab CI, VS Code, MS SQL Server, MySQL, Excel (Test Documentation)
AI Tools: GitHub Copilot, Cursor AI, Windsurf, Claude, ChatGPT, Ollama (Local LLM for privacy-sensitive test automation)
Methodologies: Agile, Scrum, STLC, Bug Lifecycle

Work Experience

Modern Communication Technology (MCOM) Pune, Maharashtra
QA Automation Engineer *June 2024 – Present*

- Built and maintained 160+ Playwright automation scripts using Page Object Model for two enterprise systems
- **AMRUT 2.0 (Government of India):** 50+ automated scripts, 150+ manual test cases across 8 modules including SCADA dashboard with real-time sensor data (15-60s intervals) and RBAC controls — identified security bug where unauthorized users could operate SCADA buttons, blocking release
- **Inventory Management System (IMS):** 60+ automated scripts, 150+ manual test cases across 7 modules including inward/outward stock, 3-level product hierarchy with 1000+ categories, and PDF/Excel exports — discovered critical data integrity bug using boundary value analysis (quantity = available + 1 causing negative stock), preventing production deployment
- API Testing using Playwright Request Context — validated /api/live-data responses
- Engineered solution for AJAX cascade dropdowns using `waitForResponse` to intercept API calls before asserting child elements, solving a major automation reliability issue
- Leveraged Playwright trace viewer and Cursor AI to debug flaky SCADA tests — identified race condition in sensor polling, achieving zero flaky failures
- Designed test protocol with developers for inserting known sensor values, enabling reliable real-time SCADA assertions
- Delivered sprint QA summaries with pass/fail metrics, bug closure rates, and risk assessment to stakeholders

IT JOBXS Pune, Maharashtra
Junior QA Engineer *October 2023 – May 2024*

- Performed security-focused functional testing on bot detection, spam prevention mechanisms, and user authentication flows
- Validated Google reCAPTCHA integration end-to-end across multiple user scenarios and edge cases
- Authored detailed test cases, reported defects with reproduction steps, and verified fixes with development team

Personal Frameworks

Playwright TypeScript Framework — DemoBlaze | *TypeScript, POM, Allure, GitHub Actions*

- Migrated JS to TS — typed POM classes, interfaces, externalized test data; Allure reports auto-published to GitHub Pages

Playwright TS — SauceDemo | *Cross-Browser (Chromium, Firefox, WebKit)*

- Cross-browser test framework with typed page objects, data-driven tests, screenshots/videos on failure

ReqRes REST API Framework | *TypeScript, Playwright Request, Multi-env*

- Typed API client with DEV/QA environment switching — full CRUD + negative testing coverage

AI-Integrated QA Workflow

GitHub Copilot | *Boilerplate & Test Scaffolding*

- POM class scaffolding, locator maps, and assertion blocks — ˜40% faster test development
- All AI-generated code manually reviewed and validated for selector accuracy and logic

Cursor AI | *Debugging & Root Cause Analysis*

- Used for flaky SCADA test investigation — identified race condition in sensor polling via trace viewer analysis
- Decoded async/timeout Playwright errors faster, reducing debugging time significantly

Windsurf | *Multi-file Refactoring*

- Agentic tool for JS to TypeScript migration in personal projects — interface generation, import fixes across multiple files

Claude & ChatGPT | *Edge Case Brainstorming*

- Used with sanitized prompts to brainstorm negative and edge test cases — validated each before adding to test suites
- Generated test data scenarios for boundary value analysis and equivalence partitioning

Security Protocol: Strict policy followed — no real server IPs, credentials, database values, or government data ever entered into any AI tool. All prompts sanitized with generic descriptions.

Education

Dr. Babasaheb Ambedkar Technological University Lonere, Maharashtra

Bachelor of Technology (B.Tech) — Computer Science & Engineering *Graduated 2023*

- CGPA: 8.33/10

Achievements

- Identified and reported RBAC security vulnerability in Government of India project — prevented unauthorized SCADA access
- Blocked production release by discovering negative stock data integrity bug via boundary value analysis
- Used AI tools (Copilot, Cursor) with sanitized prompts — ˜40% faster boilerplate, zero data privacy violations
- Consistently delivered sprint QA summaries with actionable metrics to stakeholders