ADITYA PRATAP SINGH

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PROFESSIONAL SUMMARY

With 8+ years in test engineering across healthcare, e-commerce, and SaaS, I have led teams that built systems processing 250,000+ daily orders and shipped government-scale digital health infrastructure for India's Ayushman Bharat (ABHA) programme. I work at the intersection of technical depth — Java, Python, Playwright, Appium, Rest-Assured, CI/CD, AWS, GCP — and engineering leadership: owning test strategy, quality governance, team growth, and delivery outcomes end to end. I actively drive AI-augmented engineering workflows (Claude Code, GitHub Copilot, Codex) to compress feedback loops and scale coverage. Borderline obsessed with quality.

CORE COMPETENCIES & TECHNICAL SKILLS

Leadership & Management: QA Leadership, Team Building & Mentorship, Sprint Planning, Capacity Allocation, Roadmap Planning, OKR-Driven Delivery, Stakeholder Management, Incident Management, Risk Mitigation

Test Engineering: Test Strategy & Architecture, STLC, Test Design, Regression Testing, Smoke Testing, Sanity Testing, Performance Testing, Load Testing, API Testing, Mobile Testing, End-to-End Testing

Automation Frameworks: Java-RestAssured, Playwright (JavaScript), Appium, Pytest, Gatling (Scala), Postman

Languages: Java (6+ years), Python (8+ years), JavaScript, Scala, Shell Scripting

CI/CD & DevOps: Jenkins, GitHub Actions, Git, GitHub, GitLab, Bitbucket – CI/CD pipelines

Cloud & Infrastructure: AWS, GCP, Kafka, Redis — distributed systems and cloud-native testing

Observability & Monitoring: Datadog, Kibana — production monitoring, alerting, and incident response

Databases: MySQL, PostgreSQL, MongoDB — query-level validation and data integrity testing

Collaboration Tools: JIRA, Confluence, CleverTap

AI Tooling: Claude Code, GitHub Copilot, Codex — AI-augmented test generation and automation

Platforms: Windows, Linux, macOS, Android, iOS

Methodologies: Agile/Scrum, Quadrimester Roadmapping, Quality Governance, Metrics-Driven Delivery

PROFESSIONAL EXPERIENCE

Tech Lead — Quality Engineering | PharmEasy (Thyrocare)

April 2024 – Present

Engineering leader owning quality strategy and delivery predictability across multiple product lines. Responsible for team leadership, test architecture, and end-to-end feature ownership.

- **People Leadership & Team Management:** Lead, mentor, and grow a team of test engineers across multiple squads; own sprint planning, capacity allocation, and quadrimester pipeline planning with effort estimation; drive stakeholder alignment on scope, priorities, and delivery timelines.
- **Quality Strategy & Governance:** Define and enforce system-level test architecture, best practices, and quality standards across the organisation; evaluate and adopt emerging technologies to continuously improve test coverage and release confidence.
- **AI-Augmented Engineering:** Champion AI adoption in engineering workflows using Claude Code, GitHub Copilot, and Codex; measurably reduced test authoring time and accelerated feedback loops across teams.
- **Delivery & Risk Management:** Identify and mitigate release risks early; monitor release health and team throughput using metrics-driven dashboards (Datadog, Kibana); lead production incident post-mortems with root-cause analysis and preventive action items.
- **Feature Ownership:** Own features from inception through post-release stability; drive end-to-end quality accountability across cross-functional product squads.

Senior Software Development Engineer in Test (SDET) | PharmEasy (Docon, Thyrocare)

October 2021 – March 2024

Senior individual contributor and force-multiplier; led high-impact quality engineering initiatives across billing, healthcare, and platform-level quality for a post-acquisition integration.

- **Government Digital Health Initiative (ABHA / Ayushman Bharat):** Worked in liaison with the Ministry of Health, Government of India, to design, test, and deploy end-to-end digitised healthcare systems through DocOn's products and platforms — ensuring compliance, reliability, and scale.
- **Billing Portfolio Ownership (Post-Acquisition):** Sole QA engineer responsible for an entire billing portfolio spanning multiple products and organisations. Compressed 20 years of legacy billing context into 9 months; the system now processes approximately 250,000 orders daily at an average order value of ₹950. Directly contributed to the company reaching EBITDA-positive ahead of schedule.
- **PII Security Scanner:** Independently designed, built, tested, and deployed an API response-body security scanner to detect and alert on personally identifiable information (PII) data leakages in production — improving data privacy posture across the platform.
- **High-Scale Data Validation Tools:** Built a Python-based data comparison tool that validated approximately 11 million data points in nested JSON objects with 99.98% accuracy for a pricing-billing system built from scratch. Separately engineered a tool comparing approximately 550 million data points with arbitrary delta tolerance, achieving 99.94% accuracy — enabling confident large-scale data migrations.
- **Playwright Test Automation Framework:** Co-led the design and build of an organisation-wide web UI automation framework using Playwright with JavaScript, replacing a fragile legacy Selenium setup and improving test reliability and maintainability across teams.
- **Jenkins Migration Automation Tool:** Built a tool to automate bulk migration of Jenkins CI/CD server jobs, reducing infrastructure migration turnaround time (TAT) to just 2% of the original estimated effort.

Software Development Engineer in Test (SDET) | PharmEasy (Docon)

July 2020 – September 2021

End-to-end test engineering across the full STLC — from design reviews and test design through automation, smoke/regression/sanity testing, and post-release monitoring in an Agile/Scrum environment.

- Designed comprehensive test scenarios, scopes, and test cases for product features across the full release lifecycle.
- Built and maintained test automation suites using Java with RestAssured (API testing), Java with Appium (mobile UI testing on Android and iOS), Gatling with Scala (load and performance testing), and Python for custom automation requirements.
- Championed UX best practices in both form and functionality; ensured zero regressions across a large and complex product surface area.
- Mentored and upskilled junior QA engineers in test automation, contributing to the team's overall technical capability.

Senior QA Automation Engineer | HungerBox

September 2018 – June 2020

Owned complete quality engineering deliverables from feature inception through release and post-release support in a fast-paced agile environment.

- Delivered full-cycle test engineering covering design reviews, server-side API validation, UX review and input, and complete STLC execution (functional, regression, smoke, and performance testing).
- Built and maintained automation frameworks for API and UI test coverage; ensured high release quality across multiple concurrent product tracks.

Quality Assurance Engineer | CloudMagic (Newton Mail)

August 2017 – August 2018

Test planning, execution, and automation for product releases across mobile and desktop platforms.

- Conducted test planning, functional and regression test execution, and defect reporting for major product releases.
- Contributed to test automation efforts and process improvements that enhanced release quality and reduced manual testing overhead.

EDUCATION

B.Tech — Electrical & Electronics Engineering (EEE) | Centurion University of Technology & Management

9.2 CGPA | 2013–2017

KEY STRENGTHS

- **Engineering Leadership & Team Building:** Proven track record of leading, mentoring, and scaling QA and test engineering teams across complex, multi-product portfolios.
- **Stakeholder Management & Cross-functional Communication:** Effective communicator with product managers, engineering leads, and business stakeholders to align on quality priorities and trade-offs.
- **Analytical & Data-Driven Problem Solving:** Strong metrics-driven approach to risk identification, incident analysis, quality benchmarking, and continuous improvement.
- **Technical Depth Across the Stack:** Hands-on expertise spanning API testing, mobile automation, performance/load testing, cloud infrastructure, and observability tooling.
- **Influence & Advocacy:** Proven ability to champion quality engineering practices and drive adoption of best practices and new technologies across engineering organisations.