

Gaurav Dhingra

Senior QA Engineer / SDET | Enterprise Treasury Management and Payment Infrastructure

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SUMMARY

Senior QA Engineer / SDET with 5+ years building quality infrastructure for enterprise-scale, mission-critical FinTech platforms. At ION Group, one of three engineers responsible for quality across 100+ distributed treasury and payment components serving global enterprises and financial institutions. Experienced in automation architecture, distributed systems validation, chaos and reliability engineering, and AI-assisted workflows for testing and diagnostics at scale.

CORE SKILLS

Languages: Java, Python, JavaScript / TypeScript, SQL, Bash / Shell

Test Automation: Robot Framework, Playwright, Selenium WebDriver, BDD, Pytest, JUnit, TestNG, Pact, Page Object Model, Postman

CI/CD & Tooling: Jenkins, GitHub Actions, GitLab CI, Git, Linux, Shell Scripting, Docker, Kubernetes, AWS, Jira

Backend & API: REST APIs, RestAssured, Kafka, microservices, asynchronous & event-driven systems

Performance & Reliability: JMeter, k6, load testing, chaos engineering, resiliency & recovery testing

Payments & Messaging: Treasury Management, Cash Management, Cash Position, Liquidity Planning, In-House Banking, Trade and Risk Management, FX and Interest Rate Risk, Cash and Securities Settlements, Payment Hub, Payment Messaging, SWIFT MT/MX, ISO 20022, CBPR+, SEPA, Reconciliation, Hedging, Multi-Asset OTC Instruments

Data & Observability: SQL, NoSQL, Elasticsearch, OpenSearch, Kibana, Grafana, Root Cause Analysis

AI-Assisted Engineering: RAG systems, hybrid retrieval, agentic workflows, Claude Code, GitHub Copilot, Generative AI

EXPERIENCE

ION Group

Aug 2021 – Present

Senior QA Engineer / SDET – Wallstreet Suite (Treasury Management System & Payment Hub)

- One of three engineers owning test infrastructure across 100+ distributed treasury, payments, trading, risk, settlements, FX, and liquidity components in event-driven systems where correctness failures carried direct financial impact.
- Defined quality strategy and engineering standards across 25+ cross-functional teams, establishing shared practices for test coverage, scenario design, and release readiness while mentoring engineers and shifting quality ownership earlier into the development lifecycle.
- Built a RAG-based test generation system solving the core failure of zero-shot LLM generation, insufficient determinism and accuracy at scale, using hybrid retrieval with dynamic context injection over the team's existing test suite. Outperformed codebase-wide search approaches that consumed excessive tokens yet still produced generic, domain-unaware output. Reduced scenario authoring from days to minutes, deployed as an internal self-serve tool via FastAPI.
- Architected a Robot Framework ecosystem supporting 950+ end-to-end scenarios through reusable libraries and extensible abstractions, integrated into CI pipelines to enable regression feedback within hours of code changes and reduce release regression cycles by 30%. Provides the test infrastructure the RAG system now generates against.
- Led UI automation for the reimplemented Wallstreet Suite using Playwright, designing reusable validation architecture across dashboards and critical workflows while maintaining parallel validation alongside the Selenium legacy suite with no coverage gaps during migration.
- Drove nightly flakiness below 1% through systematic root-cause investigation and built an LLM-assisted RCA agent that cut issue resolution from days to hours.
- Led chaos engineering and resiliency testing by inducing controlled failures across services, daemons, databases, and distributed components, identifying cascading failure scenarios and reducing non-deterministic failure rates from 25% to under 2%.
- Rebuilt performance testing into a reproducible Jenkins-integrated platform, reducing execution time by 40% and improving test-data generation speed by over 3x while delivering actionable insights into JVM behavior, memory pressure, database latency, and concurrency bottlenecks.
- Built a React and Node.js release visibility dashboard integrating Jenkins and Azure Graph API, replacing a manual 20-minute per-environment reporting process with real-time operational visibility for engineering and business stakeholders.

Lenskart

Jun 2021 – Aug 2021

Flutter Developer Intern – Lenskart HOP (Retail iPad POS Application)

- Shipped production features on the Lenskart HOP app, a Flutter iPad POS built from scratch for Lenskart's retail stores. Instrumented all REST API calls with Firebase latency tracking to surface endpoint performance visibility across the backend, and diagnosed and resolved UI rendering bottlenecks through systematic Flutter profiling.
- Led adoption of Provider for state management across the application, replacing inconsistent ad-hoc state patterns and establishing a maintainable architecture for a rapidly expanding feature set.

EDUCATION

Bachelor of Technology in Computer Science

2017 – 2021

Bhagwan Parshuram Institute of Technology, Delhi (Affiliated to Guru Gobind Singh Indraprastha University)