

Prakhar Srivastava

Senior SDET | Cloud & Distributed Systems Test Automation

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PROFESSIONAL SUMMARY

Senior SDET with 5+ years specialising in distributed systems and IoT telemetry pipeline validation at scale (500K+ devices). Deep expertise across Kafka/MSK, Apache Flink, MQTT, and AWS-native infrastructure — designing frameworks that enforce idempotency, resiliency, and eventual consistency guarantees in production. Experienced in guiding cross-functional QA teams, mentoring engineers on automation architecture and testing best practices, and driving quality across canary and blue-green deployment cycles. AWS Certified Developer – Associate. Proficient with AI-assisted development (Claude, Cursor, Copilot) for accelerated test generation and framework scaffolding.

TECHNICAL SKILLS

Languages & Frameworks: Java, JUnit 5, RestAssured, Playwright, Selenium, Gatling, SQL, JSON, Linux

Streaming & Messaging: Apache Kafka (AWS MSK), Apache Flink, MQTT / AWS IoT Core, Protobuf, CloudEvents

Cloud & Infra: AWS (IoT Core, MSK, S3, IAM, EKS, Secrets Manager), Kubernetes, Argo CD, Docker, Terraform

Databases & Observability: InfluxDB, Snowflake, PostgreSQL, Redis, DataDog, Statsig

CI/CD & Tooling: GitHub Actions, Argo CD, Kubernetes Jobs, Canary & Blue-Green Deployments, Gradle, Git, TestRail, Jira, Claude / Cursor / Copilot

PROFESSIONAL EXPERIENCE

Senior Software Engineer (SDET) — QA Tech Lead | Motive (formerly KeepTruckin)

Oct 2022 – Present

Telematics V2 Pipeline — Distributed Streaming Validation

- Architected end-to-end validation layer for Motive's next-gen IoT telemetry pipeline (500K+ vehicle gateways) — designing test suites that enforce idempotency, resiliency, and eventual consistency across AWS MSK, Flink, and MQTT/IoT Core.
- Built Java framework from scratch validating message ordering, deduplication, schema correctness (Protobuf/CloudEvents), and fault-tolerant delivery; Gatling stress tests surfaced bottlenecks at 50K+ concurrent connections.
- Designed time-series assertion suites (InfluxDB, Snowflake) catching ~30% of data-drift issues pre-production; integrated into GitHub Actions CI with quality gates blocking faulty builds from ECR/EKS — reducing incidents by ~40%.
- Migrated full test suite to run natively as Kubernetes Jobs in EKS cluster, enabling production-identical load testing and validating canary deployments and blue-green rollouts end-to-end.

QuikQ Direct Discounting at Love's — Full-Stack QA Ownership

- Owned end-to-end QA for migration of direct-discount and direct-billing transactions from Mastercard rails to QuikQ rails, unlocking volume expansion across Love's, TA, and PFJ fuel networks — coordinating QA across backend, mobile, and frontend teams.
- Built comprehensive RestAssured API regression suites covering 200+ scenarios including Motive fuel-code generation, mobile and frontend transaction flows, fraud-check validation, and edge-case billing reconciliation — achieving 95%+ automated coverage.
- Designed negative testing and boundary scenarios around fraud-trigger paths and payment failure modes; identified 12+ critical edge cases missed in dev testing, preventing potential revenue loss before production launch.

Associate Software Engineer (QA Automation) | Carelon Global Solutions

Jun 2021 – Oct 2022

- Contributed to Selenium-based test automation for Salesforce Classic and Lightning (quote creation, application submission workflows) — wrote and maintained regression suites covering core CRM user journeys.
- Collaborated with senior engineers on test strategy, authored TestRail plans, tracked defects in Jira, and ensured HIPAA-aligned data handling across automated scenarios.

CERTIFICATIONS

AWS Certified Developer – Associate | Issued: May 2025 · Valid through: May 2028 | Validation ID: 85878022bf6c49f683d54780ec4d9a7a

EDUCATION

B.Tech — SRM Institute of Science and Technology, Chennai

2017 – 2021

Class XII — Presidium Indirapuram, Ghaziabad

2016 – 2017