

ARSAL AZEEM

SENIOR SDET | QA AUTOMATION ENGINEER | AI-ASSISTED QUALITY ENGINEERING

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PROFESSIONAL SUMMARY

Software Development Engineer in Test (SDET) with 6+ years of experience designing and maintaining automation for APIs, distributed microservices, browser applications and cloud-connected systems. Strong Python and Java background with hands-on expertise in PyTest, unittest, JUnit 5, REST Assured, Playwright, Selenium, Kafka, gRPC, PostgreSQL, Redis, GitHub Actions, Docker, AWS and Locust. At Motive, architects substantial components of a large CI-driven automation framework and builds service-level tests across complex distributed workflows. Uses Codex and Claude for AI-assisted development, codebase analysis, debugging and test automation with practical prompt and context engineering.

TECHNICAL SKILLS

Languages: Python, Java, JavaScript, SQL, Bash

Test Automation: PyTest, unittest/PyUnit, JUnit 5, REST Assured, Playwright, Selenium, API testing, service-level testing, integration testing, end-to-end API testing, browser automation, unit testing

Distributed Systems & Data: REST, gRPC, Kafka, microservices, event-driven workflows, PostgreSQL, Redis, ORMs, database validation, test data management

Performance & Testability: Python Locust, API load/stress testing, browser-driven performance POCs, hardware/IoT dependency mocking

CI/CD, Cloud & DevOps: GitHub Actions, scheduled CI jobs, Docker, Git, Bash, Cron, AWS - VPC, EC2, ELB, S3, ECR, Lambda

AI-Assisted Engineering: OpenAI Codex, Claude, prompt engineering, context engineering, persistent memory, reusable agent skills/instructions, agent supervision; familiarity with AWS Bedrock

Tools: Jira, TestRail, Charles Proxy, Redash, Sauce Labs, LambdaTest

PROFESSIONAL EXPERIENCE

Motive (formerly KeepTruckin)

Nov 2022 - Present

SQA Engineer - Automation / SDET | Safety POD

- Design and architect substantial components of a large-scale enterprise automation framework using Java, JUnit 5, REST Assured and Playwright.
- Build service-level automated tests for distributed microservices, validating REST APIs, Kafka messaging, gRPC services, databases and cross-service workflows.
- Develop reusable service clients, assertions, test-data utilities and database/integration helpers that keep complex automation suites maintainable and scalable.
- Own and maintain scheduled CI automation jobs and regression pipelines; diagnose failures across framework, application, infrastructure, messaging and environment layers.
- Validate highly available fleet-safety systems spanning real-time location, dashcams, mobile applications, hardware integrations and cloud-hosted services.
- Use Codex and Claude for large-codebase exploration, test development, debugging and refactoring while reviewing and supervising generated changes.

Eurus Technologies

Apr 2022 - Nov 2022

Senior SQA Engineer

- Tested AWS infrastructure and cloud resources, including provisioning and validation of cloud-based environments.
- Performed stress/performance testing and automated validation for cloud systems and an in-house CloudFormation CLI automation tool.
- Created Bash/CLI automation for repeatable test execution and infrastructure checks across VPC, EC2, ELB, S3, ECR and Lambda.

Vizteck Solutions

Oct 2020 - Mar 2022

SQA Engineer

- Built Python/Selenium browser automation and performed end-to-end API testing for backend services.
- Created Locust-based performance and stress tests for APIs and browser-driven workflows.
- Developed a proof-of-concept virtual/mock IoT device that removed physical hardware dependency from automated tests while preserving realistic device-to-service flows.
- Performed functional testing, sprint-planning support, Jira-based defect management and release validation.

BCD Apps

Feb 2020 - Oct 2020

Junior SQA Engineer

- Executed functional, regression and release testing for web/application features and documented product defects.
- Supported test-case development, defect reporting and validation of fixes across development cycles.

SELECTED ENGINEERING HIGHLIGHTS

- Microservice automation: validates service-level workflows across REST APIs, Kafka, databases, gRPC and downstream services, enabling targeted coverage and faster failure isolation than UI-only end-to-end testing.
- Hardware/IoT testability POC: created a software-based virtual device that mimicked real device behavior so hardware-dependent flows could be exercised repeatedly without requiring a physical device for every run.
- Performance engineering: built Locust-based API and browser performance POCs in Python to model workload behavior and identify scalability bottlenecks.
- AI-assisted engineering: uses repository context, structured prompts, persistent memory and reusable agent skills/instructions to supervise Codex/Claude on implementation, debugging, code review and automation tasks.

EDUCATION

BS Software Engineering - National University of Modern Languages (NUML), Islamabad | 2016 - Jan 2020

CERTIFICATION

REST API Automation with REST Assured - Udemy