

VINEET KUMAR

QE Manager | SDET Lead | AI Test Automation Architect

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Permanent Resident, Canada · No sponsorship required

CAREER HIGHLIGHTS

- 78% regression cycle reduction at Goldman Sachs (5 days → 11 hours) across 3,000+ tests on 12 banking microservices.
- Shipped 5 AI agents to enterprise QE workflows at Goldman Sachs (internal); architected the Selenium + Java + Cucumber framework underpinning them.
- Led a 12-engineer SDET org across Canada / USA / India; 16+ years in regulated banking and digital commerce.
- **QE Community:** built open-source AI tooling at codereview.vineetkr.com; spoke at BrowserStack, ATAGTR2025, and Testing Mind on AI in test automation.

PROFESSIONAL SUMMARY

QE Manager and SDET Lead with 16+ years building test automation for regulated banking and digital commerce. Currently architecting AI-driven QE workflows at Goldman Sachs through Publicis Sapient: code review, requirements-to-test generation, and self-healing automation agents. Lead a 12-engineer global SDET team and have shipped frameworks covering 3,000+ tests across 12 banking microservices.

TECHNICAL SKILLS

Languages: Java, Python, TypeScript, JavaScript, SQL

Test Automation: Selenium WebDriver, Playwright, Appium, REST Assured, Pact (contract testing), Cucumber (BDD), TestNG, Postman, WireMock, JMeter, Gatling

AI / LLM Engineering: LangChain, RAG pipelines, prompt engineering for QE workflows, MCP servers including Playwright MCP, Claude Code for agentic development, multi-provider LLM integration (Anthropic, OpenAI, Groq, Ollama etc)

CI/CD, Cloud & DevOps: Jenkins, GitLab CI/CD, GitHub Actions, Docker, AWS (CodePipeline, EC2, Device Farm), Maven, Gradle, SonarQube, Allure, Extent Reports, Jira, Zephyr

Practices: Shift-left testing, TDD, BDD, Page Object Model, contract testing, flaky test management, test data management, performance engineering

Domain: Banking, Wealth Management, Payments, Salesforce CRM, Digital Commerce, Retail

PROFESSIONAL EXPERIENCE

QE Manager | Publicis Sapient (Global Delivery: Canada, USA, India)

Nov 2015 – Present · Progression: SDET → SDET Lead → QE Manager

Client: Goldman Sachs — Wealth Management & Banking Division

- Architected the BDD automation framework (Selenium WebDriver + Java + TestNG + Cucumber) covering 3,000+ test cases across 12 banking microservices including Salesforce CRM and financial transaction processing. Cut regression execution from 5 days to 11 hours (78% reduction).
- Ran integration testing across 12 banking microservices and 4 downstream systems during weekly release cycles; partnered with dev leads on hotfix validation, achieving 6 consecutive zero-rollback production deployments.
- Shifted testing into PR pipelines on 12 banking repos: PR-gated unit and contract tests, pre-merge static checks. Cut production defects 25% and mean-time-to-detect on critical issues 60%.
- Built REST Assured API automation with Pact contract testing across 12+ banking microservices; integrated into Jenkins and GitLab CI/CD with parallel execution, Allure reporting, and Slack-based alerting.
- Built a dynamic test data service (Java + REST) replacing shared QA databases; enabled isolated parallel test runs across 8 feature suites.
- Designed the enterprise load and performance testing strategy (JMeter, Gatling) validating 5,000+ concurrent users; identified bottlenecks that improved API response time 30% and held SLA under peak transaction volumes.
- Built the weekly quality dashboard (Allure + executive scorecard) consumed by 4 engineering directors; the release readiness scorecard gated 30+ production deployments.

AI Agents — Built and shipped 5 AI agents adopted by the Goldman Sachs QE team. Agents run on QA environment with outputs validated through banking compliance gates before promotion:

- **AI Code Review Agent** (Python + Claude via MCP server): scans GitLab merge-request diffs against POM and internal framework standards, posts inline comments on banking microservice repos. Adopted across 4 active QE repos.

- **AI Requirements-to-Acceptance-Criteria Agent** reads Confluence business requirements and pushes compliance-format acceptance criteria into Jira, cutting BA-to-QE handoff time.
- **AI Feature File & Step Reuse Agent:** analyzes Jira acceptance criteria, generates Gherkin feature files, and detects existing step definitions to prevent duplication. Reduced feature authoring cycle from 3 days to 18 hours.
- **AI Component & Locator Reuse Agent:** when a new UI component needs automation, the agent analyzes DOM structure and either reuses existing Page Object components and locators or generates new ones conforming to framework structure; auto-maps feature files to glue / step definitions.
- **AI Smart Test Impact Agent:** Python + LLM analyzes commit diffs to detect impacted Salesforce modules (@opp, @lead, @pardot); triggers a targeted test subset first for fast developer feedback, then full @regression as second-pass safety.

Leadership

- Managed and mentored a 12-engineer SDET team across Canada, USA, and India. Owned hiring, structured onboarding, 1:1s, and performance reviews; partnered with engineering and product leadership on quarterly quality OKRs and release readiness.
- Authored QE coding standards (POM patterns, naming conventions, linting rules, SonarQube gates) adopted by 4 squads; cut code review iteration ~35% and new SDET onboarding from 3 weeks to 10 days.

Prior Clients — Marriott International, Lowe's, Bed Bath & Beyond (Retail & Digital Commerce)

- Built cross-platform Appium + Selenium frameworks (iOS, Android, responsive web) covering 1,200+ test cases for cart, payments, order management, and account workflows with dynamic test data generation.
- Built CI/CD pipelines on AWS (CodePipeline, EC2) with Report Portal dashboards; led flaky test remediation reducing test suite instability from 18% to under 3%.

Senior Test Engineer | NIIT Technologies *Mar 2015 – Nov 2015*

- Built Selenium + TestNG automation and reusable utilities for SITA aviation system; reduced test development time 30%.

Senior Test Engineer | Aptara Inc. (acquired iServices) *May 2014 – Mar 2015*

- Led API test automation (REST Assured + Postman) for content management platform — 60+ endpoints across 4 microservices. Jenkins integration cut manual regression effort 50%. Mentored 3 junior QA engineers.

QA Analyst | iServices (Client: BancTec) *Dec 2013 – Apr 2014*

- Functional and regression testing for BancTec document capture and workflow processing platform; authored test cases for enterprise document workflows.

QA Analyst | Toluna *Jul 2010 – Nov 2013*

- Functional, regression, and UAT testing for survey / panel SaaS platform serving 4M+ users; introduced initial Selenium IDE automation that reduced manual regression cycle from 3 days to 8 hours.

SELECTED PROJECTS & OPEN SOURCE

- **AI Code Review Agent (open-source community project):** standalone LLM-based code review tool built on personal time for the QE community. Paste any GitHub or GitLab URL to get style and convention violations flagged. Pluggable LLM backends (Claude, Gemini, Ollama, OpenAI), structured JSON output, GitHub Action ready. Live: codereview.vineetkr.com
- **Playwright BDD Framework (TypeScript):** production-grade. Multi-reporter (Cucumber HTML, Allure, Bootstrap), parallel execution, multi-browser, GitHub Actions CI. Live report: contactkrvineet.github.io/playwright-bdd-framework
- **Python BDD Automation Framework:** Behave + Selenium + Requests. Dual UI and API testing, Page Object Model, parallel execution, environment configurability, multiple report formats. github.com/contactkrvineet/python-bdd-automation-framework

SPEAKING & COMMUNITY

- BrowserStack — Speaker: Transforming Test Automation with AI | Toronto | March 2026 (Upcoming)
- Agile Testing Alliance (ATAGTR2025) — Speaker: Smart Test Execution with AI | Virtual | November 2025
- Testing Mind TAS25 — Speaker: AI in Test Automation | Toronto | June 2025

View all sessions at vineetkr.com/about

EDUCATION

B.Tech, Computer Science — Uttar Pradesh Technical University, India | 2008

CERTIFICATIONS

SAFe POPM · AWS Generative AI Essentials · Microsoft Azure Fundamentals (AZ-900) · ISTQB Foundation Level · PCEP — Certified Entry-Level Python Programmer · [View verified certificates](#)