

UTHAM KUMAR N S

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Quality Engineering Leader – GenAI, Agentic Test Automation & SDLC Workflow Transformation

PROFESSIONAL SUMMARY

- Engineering leader with 14+ years designing scalable test automation platforms and frameworks adopted across teams and business units; currently Vice President at DBS Technology Services leading quality engineering for retail banking applications across Web, Android, and iOS.
- Pioneered the transition from traditional QA to AI-augmented quality ecosystems: architected stateful multi-agent systems with LangGraph and context-aware RAG (Retrieval-Augmented Generation) agents that agentify SDLC testing workflows – autonomous test generation, execution validation, and edge-case discovery.
- Hands-on with LLM integrations (OpenAI API, Gemini, Claude/Sonnet) and AI coding copilots (Claude Code), combining GenAI with Selenium, Playwright, and Appium to build self-healing automation and accelerate release cycles.
- Deep SDLC and developer-tooling expertise: CI/CD pipeline automation (Jenkins, Docker, GitHub), automated quality gates, and reusable frameworks – including a Java-based API mocking and data virtualization platform that cut external service dependencies by 70%.
- Data-driven quality leadership: observability and metrics dashboards (Grafana, ReportPortal.io, Jira/Zephyr integration) for traceability and measurable engineering impact; mentors a 25+ engineer organization and drives cross-functional initiatives with stakeholders across regions.

CORE COMPETENCIES

Agentic Systems & Workflow Orchestration (LangGraph) | LLM Integrations (OpenAI API, Gemini, Claude) | RAG Architectures | Prompt Engineering for Agent Workflows | AI-Driven Test Automation & Coverage | Validation of AI-Generated Code & Assets | Agentic SDLC Workflows | CI/CD & DevOps Automation | Scalable Platform & Framework Design | Reusable Automation Assets & Cross-Team Adoption | Observability & Metrics (Grafana, ReportPortal.io) | Service Virtualization & API Mocking | Cloud (AWS, Docker) | Risk & Compliance (CRISC) | Technical Mentorship & Cross-Functional Leadership

TECHNICAL SKILLS

GenAI / Agentic AI: LangGraph (multi-agent orchestration), RAG architectures, OpenAI API, Gemini, Claude Code, LLM-integrated test automation, prompt engineering, self-healing agents

Programming Languages: Java, Python, JavaScript, TypeScript

Test Automation: Playwright, Selenium, Appium, WebDriver.io, RestAssured, Karate, Cucumber, JBehave, Mocha, TestNG

DevOps / Cloud / SDLC: Jenkins, Docker, GitHub, CI/CD pipelines, AWS (Certified Cloud Practitioner), IBM Bluemix, Selenium Grid

APIs & Distributed Messaging: REST APIs, IBM MQ, RabbitMQ, TIBCO BW, JMS, TCP/IP, SOA

Service Virtualization: CA LISA / DevTest, iTKO LISA, SoapUI, Node.js mocking frameworks, data virtualization

Observability & Reporting: Grafana, ReportPortal.io, Extent Reports, Jira, Zephyr, Quality Center

PROFESSIONAL EXPERIENCE

Vice President | DBS Technology Services India Pvt. Ltd.

Aug 2018 – Present

Hyderabad, India | Singapore – Retail banking platforms (Web, Android, iOS)

- Architected and deployed a stateful multi-agent test automation platform using LangGraph, agentifying core SDLC testing workflows – autonomous test script generation, execution/run validation, and edge-case discovery – for enterprise retail banking applications.
- Engineered context-aware RAG agent frameworks that ingest PRDs, system documentation, and codebase schemas to auto-generate production-grade, self-healing test scripts; built validation checks to ensure quality, accuracy, and robustness of AI-generated code and assets.
- Integrated LLMs (Gemini, Claude/Sonnet, OpenAI API) with Selenium, Playwright, and Appium, designing prompts and agent workflows for AI-driven test generation – reducing testing cycle time by 40% and accelerating release cycles.
- Drove adoption of AI-augmented testing workflows and reusable automation frameworks across a 25+ engineer quality organization; established coding standards, design patterns, and systematic code reviews while mentoring senior and junior engineers.

- Embedded automated quality gates into CI/CD pipelines to validate deployments and flag regressions early; automated Android/iOS build verification in CI, reducing verification time by 75%.
- Built end-to-end observability and traceability for the quality platform – Grafana dashboards, ReportPortal.io, and Jira/Zephyr integrations – enabling data-driven, metrics-based decisions on automation effectiveness and adoption.
- Developed a Java-based API mocking and data virtualization framework reused across teams, reducing third-party dependencies by 70% and accelerating test execution turnaround.
- Partner with cross-functional stakeholders across India and Singapore to align quality engineering strategy with business objectives and scale automation from pilots to organization-wide adoption.

Specialist | DXC Technology (formerly Hewlett Packard Enterprise)

Sep 2016 – Jul 2018

Bangalore, India | Dallas, USA – Client: American Airlines

- Developed and maintained a robust test automation framework using CA DevTest and Java, delivering comprehensive coverage for web UI and web services testing.
- Automated the test execution environment with Docker and GitHub on the IBM Bluemix cloud platform, streamlining continuous integration within the development lifecycle.
- Designed and optimized virtual services for distributed messaging protocols – REST, IBM MQ, RabbitMQ – enabling stress testing and performance validation at scale.
- Implemented a data and service mocking framework with Node.js and SoapUI, reducing external system dependencies; integrated service virtualization into CI/CD build scripts with development teams.

Senior Analyst | Accenture

Jan 2014 – Sep 2016

Bangalore, India | Bournemouth, UK – Client: JP Morgan & Chase

- Developed a UI test page-object framework with Selenium and TestNG, improving maintainability and execution efficiency of automated tests across the program.
- Implemented BDD with a Java/Cucumber framework integrated with IBM MQ Series, improving collaboration between technical and business stakeholders.
- Created a “Data Virtualization” solution using CA LISA and MySQL, streamlining test data management across multiple parallel workstreams; mentored junior engineers.

Associate Consultant | Capgemini India Private Ltd.

Oct 2012 – Jan 2014

Bangalore, India – Client: ANZ

- Built a comprehensive SOA test solution with LISA Test and LISA Service Virtualization for complex service orchestration; scaled virtual services (REST, TCP/IP) for performance and volume testing under high load.

Project Engineer | Wipro Technologies

Mar 2010 – Sep 2012

Bangalore, India – Client: Wal-Mart E-Commerce

- Developed a no-code SOA testing solution for TIBCO BW interfaces using iTKO LISA; tested JMS messages with EDI payloads for e-commerce order fulfillment and maintained full requirements-to-defect traceability in Quality Center.

KEY ACHIEVEMENTS

- Reduced regression cycle time by 40% and build verification time by 75% through AI-augmented automation, parallel execution (Selenium Grid), and custom Jenkins CI jobs – a 3x reduction in testing effort.
- Cut external service dependencies by 70% with a reusable Java-based API mocking framework adopted across teams.
- Revamped risk identification and escalation processes, reducing incident resolution time by 30% and decreasing recurring operational events.
- SPOT Award for Test Architect (Hewlett Packard Enterprise) | METS Star Performer (Capgemini) | Best Individual Contributor (Wipro).

EDUCATION & CERTIFICATIONS

- Bachelor of Engineering, Electronics & Instrumentation – Sathyabama University, Chennai (2009)
- AWS Certified Cloud Practitioner | Certified in Risk and Information Systems Control (CRISC) – ISACA
- CA Accredited Lab Service Virtualization Associate (LISA/DevTest) | Accelerating Change Readiness & Agility – UC Berkeley Executive Education