

MUKESH SINGH RAJPUT

AI-Driven Quality Engineering Leader

✉ msr5464@gmail.com

☎ +91 9540845464

🌐 [linkedin.com/in/mukesh-rajput](https://www.linkedin.com/in/mukesh-rajput)

🔗 <https://github.com/msr5464>

OVERVIEW

QA Leader with **14+ years** of experience building and scaling high-performing engineering organisations in **FinTech and SaaS** environments across Southeast Asia.

Proven track record of leading cross-functional teams (**120+** engineers), driving platform scalability, improving system reliability, and delivering measurable business outcomes, including **70% reduction** in production issues and **10x** improvement in automation execution efficiency.

Experienced in working closely with Product, Infrastructure, and Business leaders to drive company-wide priorities and high-impact outcomes. Strong focus on:

- **Building up teams from scratch** for startups to enable from 0 to 1 and then 1 to 100
- **Scalable Automation** architecture (Web, Mobile, API platforms)
- AI-driven engineering (LLMs, Agents, RAG systems)
- CI/CD & Release Governance & **Data-Driven Execution** (OKRs, Metrics, Dashboards)
- FinTech Systems, Payments, Compliance
- My **Portfolio** Link: <https://msr5464.github.io> 📌

AI IMPACT & INNOVATIONS

- Built **AI Test Studio** + **QA Agent Network** ([open-sourced](#)) — a multi-agent system designed to automate some of the most repetitive parts of QA engineering (reduced QA time by **70%**). It can:
 - ◆ Convert requirements/docs/Confluence pages into TestRail test cases
 - ◆ Generate Java automation + raise GitHub PRs from plain English
 - ◆ Auto-triage CI failures (product bug vs automation issue)
 - ◆ Self-heal broken locators automatically
 - ◆ Let you talk to your tests using RAG
- Built **In-house ChatGPT-like knowledge system** ([open-sourced](#))
 - ◆ Enables Q&A over in-house documents spread across different tools like GDrive, Confluence, etc
 - ◆ On top of that, created multiple Slack bot personas like DevopsBot, TechSupportBot
- Developed **Quality Dashboard** ([open-sourced](#))
 - ◆ Custom Analytics platform for tracking quality metrics, like prod bugs, automation coverage, stability, etc
 - ◆ Daily go to dashboard for leadership → helpful for making data-driven decisions, and overall visibility

TECHNICAL SKILLS

AI/ML Tools	AI Agents & RAG, OpenAI GPT-4, Ollama (llama3.2), LangChain, ChromaDB (Vector DB), Vector Embeddings, Sentence Transformers, HuggingFace, Prompt Engineering
AI Productivity	Claude, Cursor, AntiGravity, Onyx, GitHub Copilot, ChatGPT, Gemini
Languages	Java, Python, PHP, JS, C
Automation	Selenium, Playwright, Appium, RestAssured, TestNG, JMeter; Maven, Gradle, Jenkins
Others	In-house Knowledge AI, QA Dashboard, TestRail, BrowserStack, ReportPortal, Jira

Award & Certifications:

- **Top performer of the year** — 2-time award winner
- **Oracle** — JAVA SE 6 Certification

WORK EXPERIENCE

QA Director / [Aspire](#)

Dec 2022 – NOW | Gurgaon

Aspire is a Singapore-based **Fintech company** providing modern financial solutions to businesses across Southeast Asia, helping them manage payments, credit, and expense workflows efficiently.

- ➔ Managing a **45+ member QA team** across SG, VN, ID, and IN, covering Manual, Automation, and Performance testing.
- ➔ **AI/ML Innovation:** Created **AI-powered systems** using OpenAI GPT-4, Ollama, and LangChain, like [AI Test Studio](#) + [QA Agent Network \(open-sourced\)](#) and RAG-based [in-house Knowledge AI platform](#) using Python ecosystem (both open-sourced now)
- ➔ **AI Productivity** (ChatGPT, AntiGravity Cursor, Onyx, etc) tools in daily QA workflows, boosting productivity in test case design, bug reviews, automation analysis, automation script writing, and PR reviews.
- ➔ Reduced production issues by **70%** within six months by introducing regression testing cycles and improving development processes.
- ➔ Created multiple **Web, Mobile & Api automation** frameworks from scratch using Selenium, Java, RestAssured, Appium & TestNG, with proper CI/CD, **reducing execution time from 10 hours to 1 hour**.
- ➔ Independently developed a [Quality-Dashboard](#) (already open-sourced), to track key quality metrics such as automation execution, test coverage, bug leakage, code coverage, and more.
- ➔ Designed **QA Growth Framework** defining roles, responsibilities, and structured career progression paths. And then restructured the team by focusing on **high performers**, exiting underperformers, and hiring A+ players.

Head of QA / [Gojek](#)

Jun 2018 – Nov 2022 | Jakarta

Gojek is Southeast Asia's first decacorn and a Super App offering food delivery, payments, transport, and more, with the **Merchants division** focused on **B2B payment solutions** and merchant operations across **Indonesia**.

- ➔ **Managed a team of 40+ QAs**, which includes both Manual, Automation & Performance in the Payment domain
- ➔ **Spearheaded e2e team management**, including mentorship, performance reviews, upskilling, career development, handling low performers, promotions, and recruitment.
- ➔ **Transitioned into Gojek** post-acquisition of **Midtrans**; contributed to the formation of the **Merchant division**

by integrating QA functions across Midtrans, Kartuku, Spots, and NadiPos.

- **Standardised QA processes** and Automation frameworks across multiple acquired companies, ensuring consistent quality.
- **Upgraded team capabilities** by training manual testers from acquired companies in automation, significantly enhancing the **technical depth** of QA across the org.
- **Established a Centralised QA Function**, indirectly overseeing QA for **120+ QAs across 10+ product verticals**. Introduced a **unified QA strategy** with harmonised frameworks, tools, and best practices, reducing redundancies and improving collaboration across verticals.

Head of QA / Midtrans

Jun 2017 – May 2018 | Jakarta

Midtrans is a leading **payment gateway in Indonesia**, offering secure and scalable payment solutions across 25+ methods, including cards, e-wallets, and bank transfers. It is part of the GoTo Group (formerly Gojek).

- **Joined as first QA** in Midtrans, introduced structured QA processes and best practices across Engineering.
- **Hired** multiple people in IN & ID and created a full **QA team from scratch**; introduced proper QA processes and procedures to improve the overall quality of the product.
- **Created Web and API automation framework from scratch** which is now consumed by the whole engineering team by using Selenium, RestAssured, TestNG and JAVA
- **Established the India office** from scratch to scale QA hiring, growing the team to 7 members within a year.
- Extensively proficient in **Functional testing**, Integration testing, GUI testing, and Regression testing on all platforms like Web, Mobile web, Mobile Applications etc.

Principal SDET / PayU

Jul 2013 – Jun 2017 | Gurgaon

PayU is a leading **Fintech** and **digital payments** company in India, backed by Prosus. It empowers over 450,000 businesses with secure and scalable online payment solutions across cards, UPI, wallets, and more.

- Grew from QA Engineer to **Principal SDET** within four years, leading automation initiatives across multiple products, learning everything from 0.
- Built and scaled **Web, API, Mobile, and UI automation frameworks** from scratch using Selenium, Appium, and RestAssured. Also developed automation for **critical payment flows**, including event-driven scenarios, significantly improving reliability and customer satisfaction.
- Led **pixel-perfect UI automation** using Sikuli and custom image verification libraries. Integrated **TestRail**, **RestAssured**, and image comparison tools into CI/CD pipelines for efficient execution.

EDUCATION

GATE (IIT)	<i>2012 – 2013 IIT - B</i>
B.Tech (IT)	<i>2009 – 2013 UPTU</i>
Intermediate	<i>2007 – 2008 CBSE</i>
High School	<i>2005 – 2006 CBSE</i>