



# SIVASANKARAMALAN GUNASEKARASIVAM

Lead SDET | MOBILE | Test Strategy | CI/CD | Chaos Engineering | App Experience

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## PROFESSIONAL SUMMARY

Lead QA Engineer and SDET Specialist with experience in architecting automation frameworks, driving quality strategies, building and leading global teams, and delivering robust solutions for large-scale mobile and SaaS platforms. Expertise in test automation, cloud, DevOps, CI/CD, and quality analytics. Passionate about driving quality, efficiency, and business impact through technology.

## TECHNICAL SKILLS

**Testing Practices:** Shift-left, Component & Contract Testing, Chaos Engineering

**Agile Methodologies:** Scrum, Kanban, SAFe Agile

**Languages & Frameworks:** Java, Kotlin, Rest Assured, Cucumber, BDD, JUnit, TestNG

**Automation Tools:** Appium, Selenium, Espresso, XCUITest, Playwright, UIAutomator

**Performance & Security:** K6.io, Apptim, Gatling, OWASP ZAP, Burp Suite

**CI/CD & DevOps:** Jenkins, GitHub Actions, Docker, Kubernetes, GoCD

**Observability & Monitoring:** Grafana, Kibana, Elasticsearch, Prometheus, Splunk

**Cloud & Device Infrastructure:** HeadSpin, FB Test Lab, PCloudy, BrowserStack, Sauce Labs, Kobiton, Google Cloud, K8, Docker, Micro Services

**Databases & Messaging:** SQL, Redis, Kafka

## PROFESSIONAL EXPERIENCE (10+ YEARS)

### EPAM SYSTEMS - LEAD QA ENGINEER - OCT 2023 – PRESENT

- Architected unified mobile, web, and API automation frameworks, boosting automated test coverage from 80% to 95% and accelerating release cycles by 75% for SaaS platforms with millions of users.
- Launched global-scale device farm (Appium Grid, OpenSTF), enabling 85% real-device coverage and zero-day critical issue detection.
- Embedded observability using Prometheus and Grafana dashboards in CI/CD pipelines, reducing defect leakage to less than 0.5% and improving mean time to recovery (MTTR) by 60%.
- Built a test orchestration agent, reducing pipeline flakiness by 35%, infrastructure cost by 20%, and minimizing release failures.
- Mentored and upskilled a global SDET/QA team of 30+, instituting shift-left and release on-demand workflows.

### NAVI Technologies - Senior SDET - Apr 2022 – Oct 2023

- Drove QA automation strategy for mobile and chatbot platforms, achieving over 96% end to end automation coverage.
- Implemented chaos and negative scenario test pipelines, reducing production bugs by 18%.
- Mentored SDET team growth from 5 to 15, increasing delivery velocity by 200% through modular test architecture and analytics.
- Integrated Appium and REST Assured frameworks with observability best practices, reducing regression times by 40%.

## OKCREDIT - ASSOCIATE TECH LEAD - APR 2020 – APR 2022

- Founded SDET/QA team and architected full-stack mobile/web automation, raising coverage to over 95% and boosting release confidence to 99% for 1M+ users.
- Introduced risk-based test execution, reducing release cycle from 2 weeks to 3 days and halving quality incidents.
- Championed shift-left QA with product and development, enabling bug-free launches for critical features.

## RAKUTEN VIKI - SENIOR SOFTWARE ENGINEER- NOV 2019 – APR 2020

- Managed end-to-end QA and automation for iOS, Android, and streaming platforms (Fire TV, Apple TV), improving test efficiency by 35%.
- Led app release planning and automated regression cycles.

## ALTISOURCE - SOFTWARE ENGINEER - JUN 2017 – OCT 2019

- Engineered mobile test automation pipelines with over 92% coverage, cutting defect leakage by 10%.
- Optimized team QA processes enabling on-schedule, high-quality releases.

## AB INNOVATIVE - SOFTWARE TEST ENGINEER - MAY 2015 – MAY 2017

- Introduced automation to legacy B2B mobile applications, reducing manual QA by 60% and improving SDLC quality standards.

## PROJECTS

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### TEST ORCHESTRATION AGENT FOR UNIFIED AUTOMATION - EPAM SYSTEMS

- Developed a centralized test agent for executing Web, API, and Mobile tests across CI/CD.
- Integrated with Jenkins and device clouds, reducing pipeline effort by 40%.
- Improved traceability with observability hooks and artifact collection.
- Reduced test execution flakiness by 30% and improved traceability via detailed artifacts.

### DEVICE FARM FOR TEST AUTOMATION - EPAM SYSTEMS

- Built scalable device farm architecture using Appium Grid and Open STF.
- Increased real-device coverage by 75% and reduced test execution time by 50%.
- Streamlined provisioning through containerized lab setup.

### NEGATIVE EXPERIENCE TESTING FOR NAVI MOBILE APPS - NAVI

- Simulated adverse conditions to validate app resilience and usability.
- Reduced defect leakage by 10% by identifying high-risk edge cases.
- Automated chaos scenarios and integrated them into CI pipelines.

### INTELLIGENT TEST EXECUTION FOR MOBILE APPS - OKCREDIT

- Built a smart test execution layer using code-change analysis and risk-based prioritization.
- Reduced regression cycle time by 60% and improved mobile test coverage to 90%

## EDUCATION

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**Executive MBA – Product Engineering** - Indian Institute of Technology Madras (IITM)

**Bachelor of Engineering – Mechanical Engineering** - Anna University, Chennai