

Rakesh Vardan

Principal Software Engineer & Test Automation Architect

Professional Summary

Experienced Principal Software Engineer and Test Automation Architect with 15+ years of experience designing and implementing scalable test automation frameworks, CI/CD pipelines, and quality engineering practices. Proven track record of leading teams, mentoring engineers, and driving technical excellence across organizations.

Work Experience

Principal Software Engineer

Medtronic

Nov 2024 - Present

- Lead quality engineering and deliver compliant solutions for medical device software.
- Build scalable test automation frameworks and drive CI/CD in healthcare environments.
- Leverage Generative AI and develop utilities to boost automation efficiency and coverage.
- Collaborate cross-functionally to ensure safe, high-quality med-tech software delivery.

Lead SDET

EPAM Systems

Dec 2020 - Nov 2024

- Led design of enterprise test automation frameworks and drove DevOps transformation at Mastercard.
- Mentored and managed a team of 4 engineers, providing technical guidance and career development.
- Drove organizational initiatives at EPAM, including interviews, training, and knowledge-sharing.
- Led Generative AI PoC and evangelized AI-driven quality practices through demos and workshops.

Senior SDET

EPAM Systems

Apr 2017 - Dec 2020

- Led QA team to deliver a GDPR-compliant product for a global financial client in 9 months.
- Established test strategy, automation frameworks, and CI pipelines in an enterprise environment.
- Built robust test automation to support continuous integration and frequent releases.
- Collaborated with developers and stakeholders to ensure quality and enable fast feedback cycles.

Senior Professional Engineer

DXC Technology (formerly Computer Sciences Corporation)

Jul 2014 - Feb 2017

- Delivered automation and functional testing solutions for telecom and insurance clients, including onsite work in Sweden.
- Conducted real-device mobile testing and validated end-to-end telecom service lifecycles.
- Focused on system-level testing and collaborated with clients to ensure high-quality solutions.
- Identified automation opportunities and aligned testing with project timelines and quality goals.

Professional Engineer

DXC Technology (formerly Computer Sciences Corporation)

Apr 2011 - Jun 2014

- Worked on functional testing for a U.S.-based insurance client, ensuring application quality through detailed test plans and regression execution.
- Verified fixes and maintained traceability using defect tracking tools to support release readiness.
- Automated test reporting by developing Excel macros, improving efficiency across the QA team.
- Took on early team coordination responsibilities, laying the foundation for future leadership roles.

System Engineer

DXC Technology (formerly Computer Sciences Corporation)

Jan 2010 - Mar 2011

- Performed functional testing for a major healthcare client (NHS UK), ensuring system reliability and compliance.
- Logged reproducible bugs, verified fixes, and worked closely with developers on resolutions.
- Contributed to stable test automation using HP QTP, and explored early-stage automation with Selenium.

Education

Bachelors of Technology

Jawaharlal Nehru Technological University, Anantapur

2005 - 2009

Technical Skills

Languages

Java

JavaScript

TypeScript

C#

Python

HTML/CSS

Test Automation

Cypress

Playwright

Selenium

Appium

Postman

RestAssured

JUnit

Jest

TestNG

SeeTest

QTP

CI/CD & DevOps

Jenkins

GitHub Actions

Azure DevOps

CircleCI

Docker

Kubernetes

AWS

Azure

GCP

Terraform

Ansible

Development Frameworks & Libraries

Node.js

React

Express

Spring Boot

Spring Cloud

Flask

AI & ML

OpenAI

Semantic Kernel

Azure AI

Google AI

Machine Learning Concepts