Brijendra Singh

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Professional Summary

Lead Software Engineer in Quality Assurance with **13+ years** driving quality-first engineering practices for Fortune 500 firms. **Architect of scalable testing ecosystems** that reduce time-to-market by **20–30%** and defect leakage to **<0.6%**. Excel at leading cross-functional teams, modernising legacy frameworks, and embedding **shift-left** and **CI/CD** best practices. Recognised mentor and community builder **4 industry talks** on QA innovation.

Technical Skills

Programming: Java, JavaScript/Typescript
Automation Tools: Selenium, Cypress, Playwright, RestAssured, TestCafe, WebdriverIO, Appium, Detox
Testing Methodologies: Shift-Left quality integration, Risk-Driven Defect Prevention, CI/CD Pipeline Optimisation
Frameworks: TestNG, Cucumber, Page Object Model, SOLID Principles
Performance Testing: JMeter, BlazeMeter
Tools: Jenkins, Git, Lighthouse, Axe-core

Professional Experience

Lead Software Engineer
Mastercard | Pune, India | Oct 2023 – Present

- **Quality Strategy Leadership:** Direct end-to-end testing for **30+ micro-services** and **2 web applications**, aligning Agile and DevOps teams with business critical quality metrics.
- **Shift-Left Adoption:** Mentored **12 QEs** to adopt early defect prevention, improving code quality by **15%** and reducing post-release fixes by **10%**.
- **Framework Modernisation:** Redesigned legacy systems to achieve **85% component/e2e coverage**, accelerating failure analysis by **60%** via flaky test classification.
- **Collaboration:** Partnered with 5 engineering teams to standardise quality KPIs, fostering cross-functional accountability for release readiness.

Lead Consultant (Promoted within 18 months)
Thoughtworks | Pune, India | Oct 2018 – Oct 2023

- **Client Delivery:** Led quality strategy for **4 fintech/e-commerce projects**, reducing defect leakage to **<0.5%** and accelerating releases by **25%** through test pyramid frameworks.
- **Growth Leadership:** Spearheaded **$500K+ client savings** via automation, earning promotion for process optimisation and defect prevention.

- **Community Building:** Founded regional **Testing Community** and hosted **2 VodQA conferences**(150+ attendees), advancing industry best practices.
- Built and executed test strategies for web and mobile apps for android and ios platform.
- Built and managed hybrid test automation framework for web, mobile and API test automation using selenium , webdriverIO (appium) and rest assured.

Associate
TIAA | Pune, India | Nov 2016 – Oct 2018
- **Automation Excellence:** Automated **2,400+ UI/API test cases** (60% coverage), slashing regression cycles from **5 days to 1 day**.
- **Defect Prevention:** Detected **600+ pre-UAT defects**, reducing post-release issues by **50%** and boosting stakeholder confidence.
- **CI/CD Advocacy:** Collaborated with DevOps to trigger regression suites on code commits, cutting manual effort by **40%**.

Quality Engineer
L&T Infotech | Mumbai, India | May 2015 – Nov 2016
- **Legacy Modernisation:** Automated **1,500+ test cases** using TestComplete, reducing regression cycles by **40%** and defect detection time by **60%**.
- **Team Impact:** Contributed to **40% of critical defect identification** during sprint testing, enhancing product quality.

Associate
Cognizant Technology Solutions | Kolkata, India | May 2012 – May 2015
- **Framework Development:** Automated **50% of manual tests** using QTP/Selenium, accelerating release cycles for 10+ software updates.
- **Defect Analysis:** Detected **600+ defects**, enabling data-driven quality metrics for leadership.

Education & Credentials
Bachelor of Technology, Electronics & Communication Engineering
VIT University, Vellore, India | 2012
Certifications
- ISTQB Certified Tester (Foundation Level)