TUSHA PAVULURI

QA Lead / Senior QA Engineer | AI/LLM Safety Testing • Risk & Compliance Validation
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Professional Summary

QA Lead / Senior QA Engineer (15+ years) blending **QA leadership, AI/LLM Safety Testing, Risk Assessment, and Compliance Validation**. Skilled in **adversarial QA, red teaming, prompt validation, and compliance frameworks (21 CFR Part 11, HIPAA, GxP, GAMP 5, NIST AI RMF)**. Proven record of delivering **regulator-ready systems** and building QA strategies that ensure **trustworthy, safe, and high-quality software**.

Core Competencies

- **Risk & Safety Testing** — risk assessment, NIST AI RMF, guardrails, mitigation
- **Red Teaming & Adversarial QA** — jailbreaks, prompt injection, misuse scenarios
- **Prompt Engineering & Evaluation** — regression packs, BLEU/ROUGE, embeddings
- **Compliance Validation** — 21 CFR Part 11, HIPAA, CSV lifecycle, RTM, IQ/OQ/PQ
- **QA Leadership & Automation** — Selenium, Postman, SQL, CI/CD, mentoring teams
- **Trust & Safety Analysis** — misuse detection, risk documentation, policy-aligned QA

Professional Experience

Sr. QA Lead | CK-12 Foundation, Jun 2022 – Feb 2025

- **Led QA** for **GenAI/LLM features,** creating regression test flows for **chatbot prompts** and identifying **hallucinations, bias, and privacy risks.**
- **Documented safety risks** and mitigation actions, ensuring safer, more reliable AI systems and improving trust with stakeholders.
- **Performed adversarial QA and red teaming** (misuse, jailbreaks, prompt injections), exposing blind spots with product/engineering to strengthen LLM trust & safety.

QA Manager | E*Trade / Morgan Stanley, Sep 2019 – Jun 2022

- **Managed global QA teams** across US/India, coordinating releases for trading and fintech applications.
- Delivered **risk-based QA strategies** with regulatory alignment (SOX, SEC), ensuring high-reliability deployments.
- Developed **integration/API automation frameworks**, increasing test efficiency and reducing production defects.

Engineering Manager - QA | Johnson & Johnson (BabyCenter), Jun 2018 - Jun 2019
- **Managed QA & automation team in the US**, driving release planning, test strategy, and compliance-focused validation for healthcare SaaS products.
- Directed testing of healthcare workflows for **HIPAA compliance**, covering audit trails, data integrity, and change control.
- Introduced **automation practices with Selenium & API testing**, cutting manual regression cycles and accelerating releases.

QE Manager | HelloSign (Dropbox), Feb 2016 – Jun 2018
- **Built QA org from the ground up** for HelloSign; defined processes, hired, and mentored engineers.
- Directed QA for **eSignature workflows**, validating **Part 11-style controls** (audit trails, RBAC, workflow integrity).
- Automated OQ/PQ validation with **Selenium + Postman**, boosting compliance coverage and reducing release risk.

Earlier Roles – QA Engineer / Full Stack Developer (2005–2011)
Worked across **fintech and SaaS startups as a QA Engineer** and **Full-Stack Developer**, focusing on regression, release validation, automation scripting, and building Java/Python utilities.

Highlighted Projects (Private GitHub repos available on request)
- **LLM Adversarial QA (Private):** Red teaming toolkit for LLMs (jailbreaks, misuse detection) mapped to **NIST AI RMF risk categories**.
- **LLM QA Validation Framework (Private):** Java + Selenium framework with prompt regression packs, evaluation metrics (**BLEU, ROUGE, embeddings**), and audit-style logging.
- **CSV Mock Portfolio & Selenium QA Showcase (Public):** End-to-end validation lifecycle (URS→RTM→IQ/OQ/PQ→VSR) + DMS testing (RBAC, audit trails, content integrity).

Accomplishments
- Reduced QA cycle time by **30%** via automation frameworks and Agile integration.
- Spearheaded **AI/LLM QA initiatives**, improving chatbot/LLM safety and reliability.
- Consistently achieved **95%+ defect-free releases** through risk-based test strategies.
- Produced **audit-ready risk documentation and validation reports**, ensuring traceability of safety findings.
- **Led red teaming and adversarial QA efforts**, uncovering critical misuse scenarios and strengthening AI trust & safety protocols.

Education & Certifications
- **M.S., Computer Science** – California State University | **CSV Professional Certification** – Biopharma Institute | **ISO 13485:2016 Quality Management System (Medical Devices)**