



SRIHARI NAIDU PUDU

LEAD SDET | AI QUALITY ENGINEER | AUTOMATION ARCHITECT

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PROFESSIONAL SUMMARY

Lead SDET and AI Quality Engineer with 12+ years of experience in test automation strategy, cloud quality engineering, AI evaluation, and release delivery.

Specialized in **Playwright, Selenium, Python, JavaScript, API Testing, CI/CD, AWS, Microservices Testing, and LLM Testing.**

CORE SKILLS

Web Automation EXPERT
Playwright, Selenium, Cypress

API & Microservices Testing EXPERT
REST, contracts, data validation

Cloud CI/CD Quality ADVANCED
GitLab, Jenkins, Docker, AWS

AI & LLM Evaluation ADVANCED
PromptFoo, DeepEval, RAG, Agentic AI

TOOLS

Python JavaScript Java Playwright
Selenium Cypress Robot Framework
TestCafe Postman GitLab Jenkins
Docker AWS Kafka SQL DynamoDB
K6 Lighthouse

AI & ML TOOLS

OpenAI API LangChain LangGraph
LangSmith PromptFoo DeepEval
GitHub Copilot Codex Claude Code
Agentic AI RAG ElevenLabs MCP

IMPACT METRICS

80%+
E2E coverage across critical flows.

45%
Regression cycle reduction.

30%
Faster Playwright execution.

20%
Flaky automation reduction.

EDUCATION

MCA - Andhra University
78.0%, Grade A

BSc (PPM) - Bhaskara College
Science, Chemistry, 75.08%

RECOGNITION

Excellence Award
Recognized for 100% automation delivery.

Ideathon Winner
Award-winning innovation presentation.

TECHNICAL SKILLS

Programming & Automation: Python, JavaScript, Java, Selenium WebDriver, Robot Framework, TestCafe, Cypress, Playwright, Cucumber, Pytest, Appium, Rest Assured, Postman, Applitools, Git, GitLab, Jenkins, Docker, TestNG, SQL, DynamoDB, MySQL, API Automation.

DevOps, Cloud & Quality: CI/CD, Continuous Delivery, K6, Performance Testing, Scalability Testing, AWS, IAM, S3, Athena, ECS, CloudWatch, BrowserStack, LambdaTest, JIRA, New Relic, Lighthouse, TestRail, XRay, Sitespeed, Amplitude.

AI & LLM Tools: LangChain, LangGraph, LangSmith, Hugging Face, OpenAI API, Cursor, GitHub Copilot, Codex, Claude Code, Agentic AI, Retrieval-Augmented Generation (RAG), PromptFoo, DeepEval, ElevenLabs, MCP.

WORK EXPERIENCE

Wolters Kluwer India

Lead SDET / Automation Architect

Dec 2025 - Current

- Lead test automation strategy across UI, API, database, and microservices validation layers for enterprise product workflows.
- Designed reusable **Playwright** and **Selenium** architecture that reduced manual validation effort and improved regression reliability.
- Established **CI/CD** and Continuous Delivery quality gates with Jenkins, GitLab, Docker, and AWS checks.
- Led API Testing, data validation, Performance Testing, and service-level coverage for backend workflows.
- Lead a 6-member QE team, mentoring engineers while driving tool-fit POCs for automation, reporting, and AI-assisted testing.
- Use Claude AI, Codex, GitHub Copilot, Agentic AI, JIRA, Bamboo, and ReportPortal to analyze automation failures.

Chegg India Pvt. Ltd., Delhi

Lead Software Engineer in Test

Nov 2019 - Nov 1, 2025

- Defined automation architecture for Chegg AI Voice Agent, Solution Scout, and QnA 3.0 across UI, API, event, and AI quality layers.
- Built frameworks using **Python, Playwright, Cypress, Robot Framework**, and **TestCafe**; reached **80%+ E2E coverage** and reduced regression time by **45%**.
- Led TestCafe to Playwright migration, cutting flaky tests by **20%** and execution time by **30%**.
- Implemented GitLab/Jenkins quality gates using Lighthouse, New Relic SLOs, AWS, and automated release signals.
- Developed AI/LLM validation pipelines using **PromptFoo** and **DeepEval** to measure accuracy, recall, and hallucination risk.
- Managed distributed QE teams on code reviews, recruitment, sprint tracking, and release governance.

Misport / PitchVision, Gurgaon

Data Quality Analyst

Dec 2012 - Nov 2019

- Created automation scripts using Selenium WebDriver, Python, Java, Robot Framework, TestNG, Maven, Ant, and Appium.
- Owned web, iOS, and Android quality workflows across test plans, scenarios, reports, and documentation.
- Automated PV-Review modules including PV-Splitter and PV-Canvas, supporting analysis of **1M+ deliveries**.

KEY PROJECTS

Scout Integration AI Voice Agent

Owned validation for an AI voice learning assistant supporting audio, image, and subject-based questions across Chegg's learning ecosystem.

Covered voice input, transcription, AI response quality, session summaries, analytics events, Kafka, SQL, DynamoDB, Lighthouse, and Scalability Testing.

LangGraph LangChain Playwright OpenAI API Deepgram ElevenLabs

Solution Scout

Designed an AI quality automation framework for personalized learning experiences, combining Playwright E2E flows with LLM evaluation checks for accuracy, recall, consistency, and hallucination risk.

Integrated PromptFoo and DeepEval into CI/CD to auto-validate AI answers, reduce manual review, and improve release confidence.

PromptFoo DeepEval LangSmith OpenAI API CI/CD K6

Uversity

Automated quality coverage for an educator marketplace where professors upload, monetize, and share learning content with students.

Validated content upload, discovery, rating, access, API, database, Performance Testing, and CI/CD workflows across educator and student journeys.

Robot Framework TestCafe AWS Jenkins SQL TestRail

Honor Shield

Led validation for an exam-integrity product that lets educators upload exams, configure restricted time windows, and warn students when they attempt to access protected answer content.

Covered policy rules, exam-time gating, warning flows, accessibility, performance, visual testing, cross-browser execution, and production monitoring to protect high-stakes assessment workflows.

TestCafe AWS BrowserStack New Relic TestRail Accessibility