

Ankita Shrivastava

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LINKS

[LinkedIn](#), [Portfolio](#), [GitHub](#)

PROFILE

Quality Engineering Leader & Staff SDET with 14+ years of experience architecting enterprise-grade automation frameworks and driving **Shift-Left quality strategies**. Expert in transforming manual QA processes into high-velocity, automated CI/CD pipelines that reduce regression cycles by up to **80%**. Proven track record in leading cross-functional teams, mentoring engineers, and pioneering **AI-driven testing methodologies**, including LLM reliability and hallucination detection. Committed to treating Quality as an Engineering discipline to accelerate developer velocity and ensure **99.9% system stability**.

TECHNICAL SKILLS

Leadership & Strategy: QA Management, Staff-Level Technical Leadership, Risk-Based Testing, Quality Governance, OKR Planning, Mentorship & Team Building.

Automation Engineering : Playwright (incl. Playwright + AI), Selenium, Appium, Cypress, Jest

Languages: TypeScript, C#, Java, Python, HTML/CSS, PHP, R

Testing Domains: Contract Testing, E2E, Integration, Performance, Mobile, Security

Cloud Platforms: AWS (EC2, VPC, IAM, S3, RDS, CloudFormation, CloudWatch), Azure

Performance/SRE: Locust, JMeter, k6, Quality SLIs, Flakiness Metrics

DevOps & Infrastructure: Jenkins, CircleCI, GitHub Actions, TFS, Docker, Testcontainers

Project Tools: JIRA, HP Quality Center, Trello, Visual Studio, Eclipse, Git, Postman

AI & ML Quality: LLM Evaluation, GenAI Test Orchestration, Hallucination Detection, AI Safety Benchmarking, Prompt Engineering QA.

EMPLOYMENT HISTORY

Nov 2025 — Present

Lead QA Engineer – AI Systems Research (Contract), Sepal AI

Tampa, FL

Defining the strategic framework for evaluating AI-driven automated software testing reliability.

- **AI Strategy & Evaluation:** Architected the evaluation framework for GenAI and LLM models, focusing on defect detection accuracy, test generation reliability, and boundary analysis.
- **Benchmarking & Reliability:** Established industry-leading benchmarks for AI output reliability, successfully reducing false positives in automated test generation.
- **Automation Research:** Developed AI-assisted evaluation pipelines that integrated regression, API logic, and edge-case scenarios into a repeatable, async-friendly CI workflow.

Mar 2020 — Nov 2024

Senior Test Engineer, Mozilla Corp

Tampa, FL

Pioneered a 'Quality-First' engineering culture for global products, supporting web and mobile ecosystems.

- **Platform Orchestration:** Architected a high-performance Playwright-based automation platform from the ground up. Scaled to 300+ stable tests, achieving **99.9% stability** and increasing functional coverage by **50%**.
- **Efficiency & Velocity:** Reduced regression cycle time by **80%** through the implementation of parallel execution and strategic quality gates within GitHub Actions.
- **Quality Observability:** Applied SRE principles to define **Quality SLIs**. Built real-time dashboards to track flake rates and CI latency, maintaining a deploy-blocking flake rate of **less than 1%**.
- **Leadership & Culture:** Mentored 12 engineers and spearheaded the "You build it, you test it" initiative, decentralizing quality and empowering developers to own their test suites.
- **Root Cause Analysis:** Led high-stakes incident deep-dives, closing critical coverage gaps and improving overall system reliability by **25%**.

Jan 2017 — Mar 2020

Lead QA Analyst, DATIS HR Cloud

Tampa, FL

Led the modernization of QA infrastructure for a high-growth HR technology platform.

- **Framework Transformation:** Transitioned the enterprise platform to open-source automation tools (Selenium/C#), delivering **80% cost savings** in licensing fees.
- **Mobile & CI Integration:** Developed a robust Appium framework for mobile automation and fully integrated the suite into Jenkins/TFS pipelines.

- **Infrastructure Optimization:** Implemented Docker-based Selenium Grids for parallelization, significantly reducing pipeline execution time and production defects by **10%**.
- **Leadership & Culture:** Mentored 8 engineers and embedded testing into development to drive end-to-end quality ownership.

May 2016 — Dec 2016

Software Developer in Test Intern, LANDesk Software Inc

South Jordan, UT

Contributed to the automation infrastructure for core software products.

- **Automation Frameworks:** Created and optimized C# test automation frameworks using Visual Studio, establishing foundational patterns for JSON-based data driving.
- **Virtualization:** Provisioned and managed Hyper-V virtual environments to simulate diverse OS configurations for complete end-to-end testing workflows.
- **API & Process:** Conducted robust API testing and standardized bug tracking workflows via TFS and Git to improve developer-QA feedback loops.

Jan 2015 — Nov 2015

Senior Quality Assurance Analyst, Amicus Technology Pvt Ltd

Raipur, India

Managed large-scale data integrity and migration projects.

- **Team Leadership:** Managed a **5-member Document Management System (DMS) team** through a successful migration of 200k+ documents into SharePoint.
- **Migration Quality:** Oversaw database and application server migrations, ensuring zero data loss and post-production stability.

Dec 2011 — Dec 2014

System Engineer (QA), TATA Consultancy Services Pvt Ltd

Mumbai, India

Executed comprehensive quality validation for enterprise-scale business applications.

- **Enterprise Validation:** Directed functional and backend testing for CCW Biz using HP Quality Center, ensuring high system reliability.
- **Security & Performance:** Conducted requirement mapping and security testing via AppScan, identifying critical vulnerabilities prior to production releases.

EDUCATION

Jan 2016 — Dec 2016

Master of Science in Information Systems, University of Utah

Salt Lake City, UT

GPA: 3.8

- **Specialization:** Data Analytics and Visualization
- **Relevant Courses:** Cloud Management, Product & Project Management
- AWS Certified Solutions Architect – Associate

COURSES

Jun 2025 — Sept 2025

AI Driven Test Automation using LLMs with OLLAMA and Cloud Models, Udemy

Apr 2025 — Jun 2025

Generative AI: Prompt Engineering Basics, Coursera

Jan 2025 — Mar 2025

GenAI Foundations and Prompt Engineering, Coursera

ACCOMPLISHMENTS

- Implemented **Playwright from scratch**, enabling high-performance testing with **99.9% accuracy**.
- Reduced regression execution time by **80%** through automation strategy
- Achieved **99.9% test stability** in CI/CD pipelines
- Decreased customer-reported issues by **50% within 7 months**
- Delivered **75% automation coverage** for legacy systems
- Automated compliance workflows (HIPAA), saving **40+ hours/week**
- Recognized with multiple awards for QA excellence