

# RANA USMAN SHAHID

## SENIOR QA ENGINEER | AI TEST SPECIALIST

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### SUMMARY

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QA testing expert with 5+ years specializing in high-stakes fintech and AI/LLM validation. Deep expertise testing investment management systems (\$100M+ AUM), AI-powered applications (chatbots, semantic search, LLM models), and enterprise platforms with 94% accuracy validation. Proficient in Playwright, Playwright MCP, Appium automation (JavaScript), AWS CloudWatch monitoring, and RBAC/ABAC access control testing. Reduced critical production defects by 85% through advanced exploratory and risk-based testing methodologies. Proven ability to uncover complex bugs that automation misses while strategically automating repetitive workflows.

### PROFESSIONAL EXPERIENCE

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#### Senior Software Quality Assurance Engineer - Coding Cops (Jan 2025 – Present)

- Lead team of 3 QA engineers managing quality operations across multiple concurrent projects: AI-powered influencer marketing platform (50K+ monthly users), LLM/chatbot application, fitness tracking application, and data privacy removal tool, ensuring 98% pre-release defect resolution rate.
- Validated fitness tracking application testing AI-generated workout and meal recommendations by extracting data from LLM responses (ChatGPT-like models) and verifying accuracy, relevance, and personalization based on user preferences and goals.
- Tested data privacy removal application using Playwright MCP and Scrapfly to scrape broker websites, verify personal data identification, automate removal requests, and confirm deletion, monitored application logs and debugging through AWS CloudWatch.
- Designed and executed comprehensive testing frameworks for semantic search (94% relevance across 10K+ queries), LLM validation (1,200+ prompts tested, 80+ hallucinations caught), and chatbot interactions (800+ scenarios, improved accuracy from 78% to 92%).
- Validated chatbot access controls using RBAC and ABAC models, ensuring users receive appropriate responses based on roles and attributes.
- Applied exploratory and risk-based testing methodologies uncovering 120+ critical defects including 15 high-severity security vulnerabilities, reducing testing time by 35% while maintaining detection quality.
- Implemented Playwright and Appium automation frameworks reducing regression testing from 12 to 3 hours per sprint (75% reduction), enabling twice-weekly releases.
- Collaborated with ML engineers establishing AI model testing protocols and acceptance criteria, preventing deployment of underperforming models

#### Software Quality Assurance Engineer - Techverx (Nov 2022 – Dec 2024)

- Ensured quality for 4 enterprise applications: investment management platform (\$100M+ AUM), debt management system, POS system (Toast replica), and music streaming application, maintained zero critical production defects over 18 consecutive months
- Prevented 5 critical financial calculation errors through rigorous testing of portfolio valuations, interest accruals, and trade execution workflows using state transition and boundary value analysis techniques.

- Executed 1,200+ test cases per quarter with 96% pass rate, applying equivalence partitioning and risk-based testing across multiple concurrent projects.
- Performed API testing using Postman for 30+ endpoints validating data integrity, authentication, error handling, and performance across payment and financial integrations.
- Applied exploratory testing identifying 40+ edge cases and usability issues missed by scripted testing, improving product quality and user experience.

## Software Quality Assurance Engineer - Leapsofts

(Jan 2021 – Oct 2022)

- Delivered QA for 8 e-commerce projects processing \$2M+ combined monthly revenue, testing payment gateways (Stripe, PayPal), checkout flows, and inventory management systems
- Payment Gateway Expert: Identified and resolved 25+ payment integration bugs before launch, preventing potential \$200K+ revenue loss and protecting customer trust
- Conducted cross-browser and device compatibility testing across 15+ browser/device combinations, ensuring consistent UX for 95% of user base
- Created detailed test scenarios covering edge cases that identified 40% more defects than standard functional testing
- Performed usability testing and provided actionable UX recommendations adopted in 8/10 projects, improving customer satisfaction scores by 20%

## EDUCATION

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### Bachelor of Science in Software Engineering

(2016 - 2020)

- COMSATS University of Information and Technology, Lahore

## CORE SKILLS

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- **Automation & Frameworks:** Playwright, Playwright MCP, Appium, API Testing.
- **AI Testing:** AI Model Validation, Semantic Search Testing, Chatbot Testing, Bias Detection, Hallucination Identification, LLM Testing
- **Testing Types:** Manual Testing, Regression, Smoke, Functional, Cross-browser, Usability.
- **Languages and Tools:** JavaScript, SQL, Postman, JIRA.
- **Methodologies:** Agile/Scrum, Test-Driven Development (TDD), Behavior Driven Testing (BDD), Shift-Left Testing.
- **Documentation:** Test Plans, Test Cases, Bug Reports, Test Scenarios.
- **Platforms:** Web App, Mobile App (iOS & Android).
- **OS/Browsers:** Windows, macOS, Chrome, Firefox, Safari, Edge.