

# Ruchi Nair

Software Engineer - QE

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## PROFESSIONAL SUMMARY

Software Development Engineer in Test (SDET) with 4+ years of experience building scalable automation frameworks and driving end-to-end quality for complex web applications. Specialized in Playwright (JavaScript), API testing, and data-driven validation. Proven track record of reducing manual effort and accelerating release cycles through automation-first strategies. Actively leverage AI-powered tools (Cursor, ChatGPT) to enhance test development, optimize debugging, and improve engineering productivity. Focused on building reliable, maintainable, and high-impact quality systems.

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## SKILLS

**Core Competencies:** Playwright Automation, API Testing, Postman, Swagger, End-to-End Testing (UI +API), Test Framework Maintenance, Manual Testing, Regression strategy & Optimization, Smoke Testing, Test Case Design and Execution, Defect Tracking, Azure, Agile & Scrum Methodologies, CI/CD Integration, SDLC and STLC Knowledge, AI-Assisted Testing.

**Languages:** Java, JavaScript

**Tools:** Playwright, Postman, Swagger, Azure, Test Case Management Tool

**Platforms:** Windows

**Methodologies:** Agile, Scrum, Waterfall, Risk-based Testing, Shift-Left Testing

**Languages:** English, Hindi, Malayalam

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## AI in QA & Automation

- Used Cursor and ChatGPT to accelerate test script development and debugging
  - Generated optimized test scenarios and edge cases using AI-assisted workflows
  - Reduced manual effort in repetitive validation tasks through AI-supported test design
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## RELEVANT EXPERIENCE

*Keka Technologies Pvt Ltd*

*Aug 2022 - Present*

*Software Engineer - QE*

### Project 1: Regression & Performance automation lifecycle

**Context:** Full QA lifecycle ownership across Leave, Attendance, and Core Operations modules.

#### Key Contributions:

- Designed and automated regression suites using Playwright and API validations (Postman).
- Investigated production issues using telemetry and logs to provide faster root cause analysis and resolution.
- Designed structured test strategies and documentation aligned with scalable automation and audit-ready validation.
- Leveraged AI-assisted tools to accelerate test case generation, optimize debugging workflows, and improve test reliability in fast-paced release cycles.
- Partnered with Product and Engineering to validate integrations, ensuring feature stability and rapid feedback loops.
- Mentored junior QAs in automation frameworks and API testing best practices.
- Conducted risk-based exploratory testing to uncover high-impact edge cases beyond automated coverage.
- **Impact:** Achieved <1% bug escape rate, reduced manual effort by 30%, and accelerated release cycles by 20%.

### Project 2: Multiple Shift Automation & Attendance Regularization

**Context:** Owned end-to-end QA for the Multiple Shifts feature in Keka, supporting manual web clock-ins, multiple shifts per day, and shift adjustments

#### Key Contributions:

- Engineered automation scripts for the Multiple Shifts feature using Playwright and data-driven testing strategies.
- Utilized AI-assisted workflows to enhance test design, reduce redundancy, and accelerate validation of complex shift-based business logic.
- Built reusable automation components and validation utilities for shift logic, overlap detection, and rule-based testing.
- Collaborated with developers to fine-tune API response validation and improve data synchronization accuracy.
- Mentored junior QAs on writing scalable test scripts and understanding complex business rules.
- Created detailed test design documentation and maintained a centralized traceability matrix linking requirements to test coverage.
- Executed API-level testing for shift and attendance endpoints, ensuring API response consistency and data integrity across workflows
- Supported UAT validation and post-release monitoring to ensure zero downtime or payroll discrepancies.
- **Impact:** Enhanced test coverage across multi-shift and regularization features by 60%, improving stability and confidence.

***Keka Technologies Pvt Ltd***  
***Software Engineer - Intern***

***January, 2022 - July, 2022***

- Contributed to end-to-end QA efforts in an Agile environment, focusing on quality assurance, bug tracking, and continuous learning.
- Adopted AI-assisted tools to improve test case creation and debugging efficiency during early QA workflows.
- Wrote functional and regression test cases for multiple features, ensuring high test coverage before release.
- Verified and retested bugs to support smooth, timely deployments.
- Collaborated with developers and product managers to ensure features were delivered bug-free.
- Independently conducted security testing, identified an XSS vulnerability, and reported it—demonstrating strong initiative.
- Engaged in sprint discussions and proactively learned new tools and techniques to enhance QA effectiveness

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**ACCOMPLISHMENT**

- Recognized by senior management for achieving a 0% defect rate across two consecutive production releases.
- Commended by QA leadership for deploying a complex attendance module enhancement ahead of schedule.
- Achieved **0% defect leakage** across two consecutive production releases through improved regression strategy
- Delivered a **complex attendance module ahead of schedule**, improving release confidence and stability

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**EDUCATION**

**Bachelor of Technology (Hons)**, Aerospace Engineering  
Kalinga Institute of Industrial Technology (KIIT), Bhubaneswar  
GPA: 9.21/10

2018–2022

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