

# TRIPTI GOYAL

QA Automation Engineer | Python, C/C++ Foundations & Systems Debugging  
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## SUMMARY

QA Automation Engineer with 1.5+ years of hands-on Python engineering, backed by an MCA with strong academic grounding in C/C++, Data Structures, Algorithms, Operating Systems, and Computer Networks. Skilled at debugging and root-causing issues across UI, API, and database layers in enterprise telecom systems, and currently leading a Selenium-to-Playwright framework migration. Self-motivated learner comfortable in Agile/Scrum teams, with a track record of building reusable, maintainable components and CI/CD-integrated pipelines in Jenkins.

## CORE SKILLS

Python • C/C++ (Academic) • SQL • Data Structures & Algorithms (Academic) • Operating Systems & Computer Networks (Academic) • Selenium & Playwright (Migration) • REST & SOAP API Testing • Jenkins CI/CD • Debugging & Root Cause Analysis • Agile/Scrum

## TECHNICAL FOUNDATION

MCA coursework in Data Structures, Algorithms, Operating Systems, and Computer Networks, with hands-on C/C++ programming — a foundation I'm building on through self-directed practice alongside my professional Python automation work.

## EXPERIENCE

### QA Automation Engineer — Capgemini

Dec 2024 – Present | Bengaluru, India

- Own the design and maintenance of Python and Robot Framework automation suites for enterprise telecom applications, growing automation coverage from 31% to 80%.
- Leading the team's migration of automation suites from Selenium to Playwright, replacing brittle scripts with a more stable, maintainable framework as part of a broader QA modernization effort.
- Architected reusable, keyword-driven automation components and shared utilities adopted team-wide, cutting duplicate scripting effort for new regression cases and shortening onboarding for new scripts.
- Embedded nightly regression suites into Jenkins CI/CD pipelines and own their upkeep, sustaining an 82% pass rate by proactively diagnosing and fixing unstable tests.
- Define and execute test data strategy for REST and SOAP API validation (SoapUI, Bruno) and SQL-driven backend checks in Oracle SQL Developer, ensuring data integrity across integrated systems.
- Trace defects and data discrepancies to root cause across UI, API, and database layers, partnering directly with developers to resolve issues before release.
- Write test cases and scenarios, track defects in Jira, and deliver within Agile/Scrum sprint cycles; monitor Jenkins job health via Linux/PuTTY.
- Coach and mentor 2 new team members on automation framework usage, coding standards, and maintainable test design patterns.

## PROJECTS

### Recommendation System for E-Commerce User Experience | Python, Machine Learning, SVD, Matrix Factorization

- Built a collaborative-filtering recommendation engine using SVD to improve personalized product recommendations; evaluated performance using RMSE, Precision, Recall, and F1-score.
- Published as a peer-reviewed paper at Springer ICDAM 2024, demonstrating applied Python and ML skills beyond core QA tooling.

## SKILLS

**Automation & Testing:** Selenium WebDriver, Playwright, Robot Framework, Data & Keyword-Driven Frameworks, Regression Testing, Backend/Functional Testing, UAT, Defect Management, Root Cause Analysis

**Programming & Databases:** Python, Java, SQL, Oracle SQL Developer

**Tools & CI/CD:** Jenkins, Git, GitLab CI/CD, Jira, Postman, SoapUI, Bruno, PuTTY

**Cloud & Methodologies:** Microsoft Azure (AZ-900), Agile, Scrum, Linux/Unix

## EDUCATION

**Amity University** — Master of Computer Applications (MCA) | 2022–2024

**Maharshi Dayanand University** — Bachelor of Computer Applications (BCA) | 2019–2022

## CERTIFICATIONS & PUBLICATIONS

- Microsoft Certified: Azure Fundamentals (AZ-900)
- Published Research: "Designing a Recommendation System for Optimizing E-Commerce User Experience" — Springer ICDAM 2024