



Swagata Sengupta



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Test automation architect, CSM®, DevOps consultant, Trainer

About me

Known as 'Swagat' among acquaintances, I am 14.5+ years experienced **fully hands-on** test automation architect, and a certified scrum master, delivering continuous testing solutions; helping **design and set up of CI/CD pipelines in DevOps**; and also offering **test automation training to up-skill QA teams**.

On hiring me, you get **the right blend of hands-on technical and management skills** which is key to success for any project. My core values are Honesty, Integrity & Quest for excellence through continuous acquisition of knowledge.

Open for global deployment on both – permanent and contractual roles.

Recent Achievements Summary

- **Aug-2018 to Sep-2018** Helped GlobalLogic with a PoC demonstrating performance enhancement potential of their test automation framework and suite by 60%.
- **Jun-2018** Helped Northern-Arc set up CI/CD pipeline using GitLab and test automation framework capable of executing UI and API tests on headless VMs.
- **Feb-2018 to May-2018** Helped up-skill a batch of manual testers through 4 months rigorous online training on 5 test automation tools on behalf of devop-trics
- **Nov-2018 to May-2018** Helped co-found and set up CloudScaleQA's IP and infrastructure.
- **Oct-2017 to Dec-2017** Provided consulting and training services to NetElixir. Up-skilled their QA team on test automation and implemented unit and integration testing framework with Dev team.
- **Feb-2003 to Aug-2017** Worked with corporates like Deloitte, TestingXperts and Virtusa and led 30+ team sizes as scrum master, Test Manager etc. Gained **significant knowledge of Insurance and healthcare domains**.

Education

- **1999 – 2003 Bachelor of Engineering** in *Computer Science and Engineering*, 73.16%
Rajiv Gandhi Technical University, Bhopal
- **1996 – 1998 High School** (10+2), 74.2%
CBSE

Job History

- **Aug-2017 – till date** **Self-employed Freelance Test Automation Architect, DevOps consultant, Trainer**
- **Feb-2017 to Aug-2017** **Test Manager** at TestingXperts (a division of Damcosoft)
- **Jul-2008 to Jan-2017** **Senior Consultant** at **Deloitte Consulting India Pvt. Ltd.**
- **Feb-2004 to Jul-2008** **Senior Engineer-QA** at **Virtusa Pvt. Ltd.**

Skills

Technical (Primary)	Selenium Web Driver (with Java, TestNG, Maven, Extent and Allure reports)	★★★★☆
	Cucumber (with Java, TestNG/ JUnit runner)	★★★★☆
	RESTAssured (for RESTful web-services API testing)	★★★★☆
	Appium (on both Android and iOS)	★★★★☆
	Protractor (with Jasmine and JavaScript)	★★★★☆
	Jmeter	★★★★☆
	UFT (with VBScript)	★★★★☆
Technical (Secondary)	Tosca (Certified)	★★★★☆
	Vagrant	★★★★☆
	Docker	★★★★☆
	Linux Basics	★★★★☆
Non-Technical	Python	★★★☆☆
	Test and project planning, estimation and management.	★★★★☆
	Project and test management tools like Rally, JIRA, ALM, SpiraTeam etc.	★★★★☆
	People management	★★★★☆
	Metrics collection and reporting	★★★★☆
Certification	Certified Scrum Master (CSM)	ID 317119
	Tricentis Tosca Certified	COC0013777
	ISTQB Foundation Level	ITB-CTFL-0021444

Details of Key Achievements and projects delivered in last 5-10 years

Summary: Review of GlobalLogic's proprietary test automation framework and suite. Proof of Concept to reduce test execution time.

Chronology: Aug – Sep 2018, **Duration:** 2 months, **Location:** Onsite (Nagpur, India)

Industry: IT Services

Nature of engagement: Freelance.

Key Tools and Technologies Used: Selenium, Appium, Selenium-Grid-Extra, Core Java, Maven

Key achievements and deliverables:

1. Review:
 - a. Reviewed the GlobalLogic's proprietary test automation framework and test suite. Identified more than 350 functions which can be improved or refactored to achieve lesser execution time for Web test suite alone.
2. Proof of concept:
 - a. Selected 3 test cases and re-coded them with own code.
 - b. Demonstrated over 60% lesser execution time while executing the selected 3 test cases in parallel over 4 browsers – Safari, Edge, Chrome and Firefox over distributed grid of machines.

Summary: CI/CD pipeline set up using GitLab and test automation framework creation for a prominent financial services company in Chennai, India.

Chronology: June 2018, **Duration:** 1 month, **Location:** Onsite (Chennai, India)

Industry: Financial Services

Nature of engagement: Freelance, referred by Mytri Tech

Key Tools and Technologies Used: GitLab, Selenium, Xvfb, Java, Maven, TestNG, RESTAssured, RHEL Azure server, Vagrant

Key achievements and deliverables:

3. CI/CD Pipeline:
 - a. Set up GitLab private runners on Azure servers
 - b. Defined pipelines using yml file for 3 projects – frontend, backend (services) and test automation framework. frontend pipeline, on success, would trigger the backend pipeline, which will take the frontend distribution, build and deploy on tomcat server. It would then trigger test automation pipeline. On success, dev branch code of backend project will be automatically merged with staging branch.
4. Test Automation:
 - a. Used Java, Maven, TestNG to build a robust and configurable framework which can execute both API and web UI tests on headless servers (using Xvfb).
 - b. Framework can be configured to execute Selenium web UI tests in both standalone and grid mode.
 - c. Framework can be configured to use extent reports.
 - d. Framework can be configured to send an email (with / without extent reports and zip files attached – configurable) at the end of execution.
 - e. Framework is capable of executing tests in parallel or sequentially for multiple browsers.
 - f. Automated 7 real API tests and 2 web UI tests before providing required knowledge transfer to dev team to take up further test creation and maintenance.

Summary: Helped co-found CloudScaleQA (A unit of ScaledQA Technologies Pvt. Ltd. Hyderabad, India) and contributed towards technical assets, sales, talent acquisition and more.

Chronology: Nov 2017 – Apr 2018, **Duration:** 5 months, **Location:** Onsite (Hyderabad, India)

Industry: Testing Services

Nature of engagement: Freelance, referral through network

Key Tools and Technologies Used: Selenium, Java, Maven, TestNG, RESTAssured, Appium, JMeter, Cucumber, Ubuntu AWS VPS, HTML/CSS, Spring boot, Jenkins

Key achievements and deliverables:

1. Design DIY tools – I helped in designing of 4 DIY tools – Automation Suitability Analysis, CI/CD Maturity Analysis, ROI Calculation, Automation Tool Assessment. I **completely owned backend design of Automation Tool Assessment** and I **have written the backend logic for CI/CD Maturity Analysis tool**.
 2. Website maintenance – I have been maintaining the CloudScaleQA static website as well as the backend server which hosts the 4 DIY tools. Maintenance includes applying SSL certificates through CPANEL and also updating static pages with contents.
 3. I have designed a generic test automation framework for CloudScaleQA which can support mobile UI testing, Web UI testing, web services API testing, performance testing. It can execute tests both with Cucumber and with TestNG. It can integrate easily with CI tool like Jenkins.
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4. Web content review and designing – I helped with reviewing contents of the CloudScaleQA website and edited a lot of contents on test automation.
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Summary: Helped NetElixir up-skill their QA team and develop a unit testing framework for the developers.

Chronology: Oct 2017 – Dec 2017, **Duration:** 3 months, **Location:** Onsite (Hyderabad, India)

Industry: Digital Marketing

Nature of engagement: Freelance, referral through Mytri Tech

Key Tools and Technologies Used: Selenium, Java, Maven, TestNG, On-premise CentOS servers, Spring MVC, Jenkins

Key achievements and deliverables:

1. Up-skilling QA team on Java, Selenium, Maven, TestNG, Extent Reports, Jenkins for 2.5 months.
 2. Brainstormed with dev architect and QA lead to come up with design of automation framework
 3. Helped design the automation
 4. Helped Dev team create required libraries for a Java-TestNG based unit testing framework to execute their unit-and integration tests. Same generic libraries were shared by QA team for their tests.
 5. Help set up test automation framework with Jenkins on a CentOS server.
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Summary: Helped a group of manual testers up-skill themselves on 5 test automation tools.

Chronology: Feb 2018 – May 2018, **Duration:** 4 months, **Location:** Online

Industry: Technology, Test Automation

Nature of engagement: Freelance, on behalf of devop-trics

Key Tools and Technologies Used: Selenium, Java, Maven, TestNG, RESTAssured, Appium, JMeter, Protractor, JavaScripting, Jenkins, Extent Reports, Allure reports, GoToMeeting

Key achievements and deliverables:

1. Rigorous 4 months online live training on – Selenium, Appium, RestAssured with a base of Java, TestNG, Maven; JMeter; Protractor with Jasmine. Covered two types of reporting – Extent and Allure reports.
 2. Multi-browser parallel testing, selenium grid set up and distributed parallel testing.
 3. Pacing the training based on the current knowledge level of manual testers
 4. Eradicating the fear of coding through fun assignments and solving them live in next session.
 5. Sharing best practices in the industry for various test automation.
 6. Recording sessions every day and sharing with the trainees
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Summary: Contributed to the success and sales of TestingXperts as Manager and head of test automation CoE (Center of Excellence)

Chronology: Feb 2017 – Aug 2017, **Duration:** 5.5 months, **Location:** Hyderabad

Industry: Technology, Test Automation

Nature of engagement: Full-time employee of TestingXperts (A unit of Damcosoft Pvt. Ltd)

Key Tools and Technologies Used: Selenium, Java, Maven, TestNG, Appium, JMeter, Protractor, JavaScripting, Jenkins, Extent Reports, Allure reports, TestComplete, CodedUI, EggPlant, UFT.

Key achievements and deliverables:

1. Managing client 15 projects simultaneously from offshore.
 2. Prepared well-defined roadmap for all projects and followed up weekly on the same so that all the clients have the required visibility
 3. Simultaneously leading test automation CoE implementing robust automation frameworks using various tools.
 4. Support pre-sales with demos and custom PoCs (Proof of Concepts).
 5. Manage more than 30 practitioners across multiple projects.
 6. Manage time-sheets, expenses and billing to clients
 7. As a part of technical contributions, helped in code reviews, helped in enhancing frameworks, set examples for team to follow coding standards.
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Summary: Contributions as Senior Consultant in Deloitte

Chronology: Jul 2008 – Jan 2017, **Duration:** 8.5 years, **Location:** Hyderabad

Industry: Multiple – (Technology Media Telecommunications, Insurance, FSI, Healthcare)

Nature of engagement: Full-time employee of Deloitte Consulting India Pvt Ltd

Key Tools and Technologies Used: Selenium, UFT, Tosca.

Key achievements and deliverables:

1. Managed an insurance project with eBao package implementation in a multi-vendor set up. Contributed as PMO and in technical capacity helped set up selenium based framework and supervised JMeter based performance testing team.
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2. While working with one of the membership based leading insurance provider implementing Exigen insurance solution, owing to the quality of work of the team, helped secure a USD 500,000 additional SOW.
 3. While working with a Canada based worker's compensation insurance provider, implementing Guidewire Policy Center, Billing Center and Claim Center, set up the process for seamless operation among cross geographical teams following scrum framework. Also, set up test automation framework using ALM and UFT. This resulted in timely delivery through improved communication and hence faster time to market for the client.
 4. While working with a TMT giant, in a very short time, set up the process and guidelines of test automation using Tosca for a team which primarily consists of developers
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References

Available on request.