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# SOUMYAJIT BASU

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**Quality Keeper by profession, Tech enthusiast by passion**

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## Summary

A professional with 6 years of experience in QA automation. End-to-end monitoring for applications from requirement analysis to system study, designing, coding, testing, and documentation. Along with automation, I take interest in the DevOps process where I created a seamless continuous integration process for better software releases. I have been part of the client-side team for 6+ months, helping them out with Quality Control for the product that was being developed. An open-minded lad open to learning, improvising and improving myself through continuous learning.

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## Work experience

July'19 - Present	<p>Senior Software QA Engineer</p> <p><i>Synup</i></p> <p>Working as a backend test engineer for the product components, which includes writing test cases using test rails, integrate test rails with python automation to derive the test outcomes for API automation. Write test cases to evaluate database queries, elastic search queries and API flows for software components.</p>
April'19 - June'19	<p>Senior QA Developer</p> <p><i>Equifax Analytics India</i></p> <p>I am currently a part of the Web Analytics, and the Product Development team, applying my eccentric QA knowledge on the product front to make sure the stabilization and proper working of the product for a better outcome. Also, work closely with the web analytics team to take care of the tagging to the data getting reflected in the google analytics dashboard.</p>
Oct'17 - March'19	<p>QA Developer</p> <p><i>Equifax Analytics India</i></p> <p>My professional career here involves being a QA Developer, working extensively on creating end-to-end automation framework using python for the product team.</p> <p>I am currently a part of the Web Analytics, Support Desk and the Product Development team, applying my eccentric QA knowledge on the product front to make sure the stabilization and proper working of the product for a better outcome.</p>
Mar'17 - Oct'17	<p>QA Engineer</p> <p><i>AutomatAd, Bangalore— QA Engineer</i></p> <p>I worked as a QA automation and a DevOps engineer. My job role is to create an automation platform for the software application to check regression for each commit made. Besides this, I am also working on 'Docker' to create an independent platform for the application where the build can be done at a regular interval of time with the regular commits.</p> <p>Worked on 'python Behave' which is a Behavioral Driven Development framework to chalk out the regression scenarios along with continuously integrating all these using 'Jenkins'.</p>
Dec'14 - Feb'17	<p>Quality Analyst (Level-2)</p>

## *Srijan Technologies, Bangalore— QA(L2)*

A professional quality keeper having 2 years 6 months experience in developing automation frameworks using Selenium Python. I have strong experience in working with BDD framework using Behat. Also have intermediate knowledge working on Javascript automation frameworks like NightwatchJS, CasperJS for poc projects. I have also implemented a Visual Regression suite stack using Galen as well. Proficiently utilized continuous integration to integrate the automation stack with the developer environment using 'Jenkins'.

Besides this I also have continuously interacted with the client to gather requirements, understand business needs, documented the requirements in terms of 'Scenarios' and 'Test Cases'. Proficient in using and managing JIRA (Project Management Tool)

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## Education

2013 - 2015	Masters in Computer Application <i>Symbiosis International (Deemed University)</i>
2008 - 2011	Bachelor of Science (Computer Sc. Honours) <i>University of Calcutta</i>

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## Skills

### Insomnia

Use insomnia to make various API requests and serves as a GraphQL IDE to run for queries and mutations.

### PyTest

Understand working of pytest

### Selenium

WebDriver

### Continuous Integration

ProboCI, Jenkins, TravisCI, Codacy

### Cloud based automation

BrowserStack

### Docker

Docker Cloud

### Elastic Search

Test elastic search queries as part of automation to test out respective data for Facebook, Google, and Bing

### GraphQL

Post requests using GraphQL to undergo backend operations

### Python

PyTest, UnitTest, BrowsermobProxy, Nose

### Behavioral Driven Development

Behat, Behave

### Source Control Managment

GitHub, BitBucket

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## Profiles

**GitHub** <https://github.com/Corefinder89>

**Blog** <https://soumyajit2016.wordpress.com/>

**DZone** <https://dzone.com/users/2997625/corefinder.html>

**DockerHub** <https://hub.docker.com/u/corefinder/>

**WebCodeGeeks** <https://www.webcodegeeks.com/user/soumyajit-basu/>

**Python Package Index** <https://pypi.org/project/browserium/>

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## Accolades

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1. I have been a regular speaker at QA Forum which was an internally hosted, organizational event
2. I have also contributed to the article section of my organization with blogs on automation technologies.
3. I have been a speaker at the Selenium Conference 2016.
4. I have been a speaker at the JSChannel Conference 2016.
5. I am a technology blogger at my own blogging platform named "Geek's World".
6. I am also an MVB (Most Valuable Blogger) at "DZone".
7. Article contributor at "WebCodeGeeks", "BrowserStack".
8. Article and Research Guide contributor to platforms like "DZone", "Automation Laboratories".
9. Module contributor at PyPi(Creator and maintainer of the project)

<https://github.com/browserium/Browserium>

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## Organizational Skillsets

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1. Contribute to the better stability of the product.
2. Have an idea of working on analytics dashboard and e-commerce platforms.
3. Extensively worked on creating tagging instructions for the inbuilt data collector process for MTA (Multi-Touch Attribution).
4. Have an idea of the working process for Google Tag Manager and Google Analytics. Verify the quality of the tagging process and verify the quality of data in the analytics dashboard.
5. Analysis of products, create an end to end test cases for business flows. Apply automation skills to automate respective functional test cases.
6. Implement custom frameworks for quality development for respective projects.
7. Have an idea of the continuous integration process.
8. Integrate custom framework with continuous deployment builds.
9. Have an idea of the BDD (Behavioral Driven Development) process. Created BDD frameworks using Python Behave and Behat.
10. Have an intrinsic idea of the working process of Selenium.
11. Can deploy automation code on docker platform.
12. Have an idea of cloud-based automation deployment (browser stack).
13. I have worked on load testing modules like locust to deliver load based results for APIs.
14. Delivered intensive documentation to clients for better understandability of products and instructions on managing the data collection process.
15. Have knowledge on working with graphql endpoints, validating Kafka consumer processes.

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## Organizational Projects

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### **Analytics-based project (Media attribution)**

- Understand business workflows for media attribution project.
- Understand client requirement and user scope.
- Create tagging instructions and deliver to client requirements for data collection.
- Test out the data collection process from the web to the back end.
- Validate the data collection process and test performance for server upscaling.
- Create custom regression framework for functional test cases.
- Charter out test cases, test plans for the dashboard.

**Tech stack:** Python, Selenium, pytest, locust, compute engine to deploy the framework

### **Cookie Pooler (Automation framework to track data in Google Analytics)**

- Understand the requirement to inflate data in Google Analytics.
- Understanding reports in Google Analytics.
- Manipulating data using a custom framework to replicate user behaviour in the reports.
- Deploy automation framework on **Google Compute Engine**.

**Tech stack:** Python, Selenium

#### **Network Traffic Tracker (Automation framework to track network traffic)**

- Create a custom framework to analyze network traffic which is used to send data to Google Analytics.
- Deploy automation framework on **Google Compute Engine**.

**Tech stack:** Python, BrowserMobProxy.

#### **Data Layer automation (For GTM tagging)**

- Write an automation script that can automate the process of checking the data layer which gets pushed on user actions.
- Deploy automation framework on **Google Compute Engine**.

**Tech stack:** Python, Selenium, Chromedriver

#### **Audit framework (For Google Analytics, Google Tag Manager)**

- Write an automation script to carry out the automation of GA and GTM audits that can pull out data using GTM and GA APIs.

**Tech stack:** Python, Google APIs

#### **Digital ad space project (SaaS-based ad replacement product)**

- Understand business workflows for digital ad space.
- Understand client requirement and user scope.
- Create a custom regression framework for functional test cases.
- Charter out test cases, test plans for the product.

**Tech stack:** Python, Behave.

#### **Backend testing**

- Writing backend test cases for notification module, user-permissions module, audit trails module and reviewshake integration.
- Write custom queries using GraphQL to check for notable outcomes for a response.
- Write API tests as a part of the automation process for notification module, user-permissions module, reviewshake integration.
- Use postman for validating API responses.
- Automate notification process from the backend to validate proper functioning of outgoing email notifications.
- Pair up with developers to architect test APIs to execute backend tasks and procedures to execute backend tasks for automation.
- Use jwt token and API token for API validations.
- Work with Postgres and python to execute db queries for automation.
- Write automation tests to validate the functioning of reviewshake integration.
- Use test rails to write test cases and integrate it with the automation platform.

**Tech stack:** Python, Pytest, TestRails, Selenium, Postman, Altair, Insomnia, Postgres, APIs

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### **Flexibox - Open Source Project (Maintainer & Coordinator)**

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Flexibox is an open-source python module that is moderated and maintained by me as a project. Browserium helps in sorting out the issue of cross deployment of automation projects for selenium over cross platforms. This would help the user to just plug in their automation framework on the server, download the required binaries and play their automation script.

The benefit of using this module would help reduce configuration code for browser configurations and would also remove the dependency of maintaining browser binaries specific to the deployment environment.

The features that the module would provide are:

- One step to **download** the required browser drivers.

- One step to **update** the required browser drivers.
- Create a **single instance** for your required browser object. No more code required to configure your browsers separately.
- A set of browser related **generic functions** that can be utilized for debugging as well as for achieving the required functionalities. So, we are reducing quite an effort over here as well !!
- You can run browsers **Chrome** and **Firefox** using the **headless** option as well so that it is comfortable running your framework on the server as well.

For more references, you can visit

<https://pypi.org/project/flexibox/>

<https://github.com/flu-x/flexibox>