

## SURBHI RAUTJI

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### SUMMARY:

- Hold 3 years of professional experience in QA Engineering and Test Automation, involved with Companies like Hanumayamma Innovations and Technology, NetScout Systems, and Oracle.
- Master of Science in Software Engineering from San Jose State University with CGPA of 3.61 out of 4.00
- Key contributor in Hanumayamma Innovation and Technologies projects like Dairy Analytics, Company Website development, and Health Analytics
- Hands on experience with Selenium, Java, JavaScript, Functional Testing, Regression Testing, API Testing, Sanity Testing, Unit Testing etc
- Experience with scripting environment and developing scripts using shell, PowerShell, bash etc.
- Experience with Agile and version control using tools like Jira, Confluence, and Git
- Deep expertise in testing of responsive web application both manual and automation using tools and technologies like Selenium, Appium, Selenoid etc
- Excellent understanding on IoT and embedded devices application testing and debugging.
- Advanced development experience with database technologies like MySQL.
- Expertise in contributing to documentation and developing test plans, test suite and defining test strategies for the projects I was involved, thus far.

### TECHNICAL SKILLS:

- **Testing Technologies:** Black box testing, Test Automation, JUnit, Selenium, Shell scripting, batch, PowerShell, TestNG, NeoLoad, QC, Appium, TestRail, Jenkins, Bugzilla, Advanced Rest Client (ARC), Postman, Atlassian Jira.
- **Languages and Databases:** Java, JavaScript, MySQL, PostgreSQL, Oracle 10g, Microsoft Access
- **Web Technologies:** JQuery 2, HTML 5, CSS 3, SCSS, Bootstrap 3.3.2, Tableau, High charts, npm
- **Others:** Unix, Windows, Microsoft Excel, Microsoft Office, git, AWS, Agile, Atlassian Confluence, VMware, Eclipse, IntelliJ

### RELATED EXPERIENCE:

#### Software Quality Assurance Engineer (Contract), 3K Technologies, Inc.

March 2019 – June 2019

- Contributed in setting up the infrastructure of the application especially Active monitoring, Event Hub, Connected Factories
- Developed event trigger gathering scripts in Javascript and Java
- Perform data validation using Selenium and SQL driver for the data points stored in the cosmos DB database
- Create QA automation end to end framework using Selenium WebDriver for the application
- Tested different components of the application like Dashboard being the primary component, I am testing Dashboard of the application.
- Performed Data Validation testing for both input and output pipeline.
- As a part of data validation testing, I am fetching the values in the Cosmos BD, after getting stored, and making sure that the values that are provided as the input are the ones that are getting stored in Cosmos DB and at the same time making sure that stored Cosmos DB values are the one that is getting output to be displayed on the Dashboard.

**Technologies:** Microsoft Azure | IOT Connected Factory | IOT Hub | Event Hub | Remote Monitoring Accelerator | Selenium Database Validation | Azure Cosmos DB | Microsoft Azure Data Lake | Java | C# | JavaScript | Selenium WebDriver based Test E2E Automation

#### Software Engineer, Hanumayamma Innovations and Technologies, Inc.

September 2016 - present

- Involved in **Agile based development** and cross browser testing of a **Responsive web application** called Dairy Analytics, a sensor motion detection feature which provides the real-time motion of the cattle wearable devices in the field locations.
- Conduct native mobile apps testing using tools like Appium for targeted devices like Google Pixel (1<sup>st</sup> version), apple iPhone 6, 6s, 7 variants.
- Development of **automation testing** framework for company website, Sanjeevani EHR Web application and Daily Analytics application using **Selenium WebDriver**, JUnit and following POM (Page Object model) development paradigm.
- Testing and debugging of web applications using **Webkit** and **Mozilla** native or supported developer and debugging tools.
- Enhanced the selenium WebDriver based automation testing framework for web applications to do database validation using JDBC driver and Junit.
- Used git as the version control system for storing selenium web driver project and various automation scripts
- Perform operations on Jenkins to monitor continuous testing and continuous integrations tasks in the **Jenkins** build pipelines.
- Perform **manual testing** of Daily Analytics application and Sanjeevani EHR web application.
- Collecting **functional and non-functional** requirement in collaboration with Business Analysts, Project Managers and various another stakeholder
- Define and develop use cases, test scenarios, test strategies and test script on the basis of identified scenarios.
- Generating test coverage report after every testing cycle, presenting acceptance levels, coverage percentage and various testing meta data information.
- Reporting bugs in the application within each testing cycle on tools like **Atlassian Jira** and **Bugzilla**.
- Contributed towards front end development of the Dairy analytics web application and company marketing website.
- Created and maintained test cases for Hanuinnotech.com in **TestRail** and performed **web UI functional, regression, and integration testing**.
- Provide accessibility and support to business analysts and sales engineer personals in performing user acceptance testing both internally and externally.
- Participate in bug triage meetings, collaborating with developers and managers for the prioritization of bugs and incidents, and help developers in reproducing bug origination scenarios and performing the **root cause analysis**.

**Technologies:** HTML 5 | SCSS | CSS 3 | Java | MySQL | Bootstrap 3.3.2 | AWS | Atlassian Confluence | Selenium Web Driver | JMeter | Atlassian Jira | Bugzilla | TestRail

#### Software Engineer, NetScout Systems

August 2015 – November 2015

- **Testing and debugging** the application, maintain issue metrics and creating visualization to do better analysis of the applications.
- Data parsing using **Java**, **SQL** and **JavaScript** for alerting engine nGeniusONE (Analytical application) for packet capture and packet analytics appliance.
- Data parsing for nDD (nGenius Database Deployment - Cloud based application for nGenius Server Deployment at customer sites).
- Collected Data from various alert systems in **XML** format to parse it than organize and store the relevant information into **PostgreSQL**.
- Created the SQL code generator based on the input response generated from the alert system engine.
- Perform database validation on the database data processed through DML and DDL statements generated by the parsers.

**Technologies:** Java | JavaScript | PostgreSQL | HTML | XML | JSON | Tableau | Microsoft Excel

#### Sales Operations Engineer, Oracle Corporation

February 2013 – February 2014

- Interviewed stakeholders to gather pre-purchase requirements or the application feature feedbacks.
- Collected requirements on what product services would different government organizations across states of India would be interested in or if they hold any proposals on the requirements.

- Translated stakeholder requirements to Engineering and PM team into different tangible deliverables such as **functional specifications**, use cases, workflow/process diagrams, data flow/data model diagrams using **Visio** and **Lucid Chart**.
- Monitor, identify and troubleshoot issues for partner integrations for **Oracle ERP Solutions**.
- Maintaining weekly team activity reports and reporting summarized outcomes of the weekly activities to the Director of Sales Operations.
- Supported and collaborated in SDLC during different phases such as **analysis, design, and testing**. We used Confluence and Jira for project tracking.
- Quality assurance and conducting A/B testing of the products, and record maintenance of trial testing phases.
- Preparing summary, graphical representations and visualization using applications like tableau to represent the most important featured information.
- Contributed in improving and incrementing the product sales percentage, while in my tenure, by approximately 8%.
- Managed and merged large data sources and created visualizations to aid in sales pattern understanding; performed pattern recognition and learning.

#### ACADEMICS:

##### Master of Science, San Jose State University, CA

- Major:** Software Engineering
- Coursework:** Enterprise Software Platforms, Cloud Technologies, Software System Engineering, Software Quality Assurance and Testing, Virtualization Technologies, Business Intelligence Technologies, Web and Data Mining, Web UI Design and Development.

##### Bachelor of Technology, Amity University, Noida, India

- Major:** Computer Science & Engineering

#### PROJECTS:

##### Mobile Application and Automation (Instagram mobile application)

- Designed and executed test cases for Instagram mobile application for Android and iOS devices.
- Performed black box and automation testing on Android and iOS devices like iPhone 5, iPhone 6, Google Nexus 4, Moto G2
- Created test cases and tested GUI of the application
- Used Perfectomobile and Appium for Mobile Automation testing
- Created test plan, test design and test execution documents
- Used Neoload to perform Load and Performance testing.
- Performed black box testing, load testing, performance testing and location-based testing.

**Technologies:** Neoload | Bugzilla | Perfectomobile | Appium | Element Tool

##### Resonance: The Music Connection

- Music social network with recommendation system based on heartbeat data using fitbit devices.
- Developed User Interface of the application using different technologies like **HTML 5, CSS 3, Twitter Bootstrap, Javascript, JQuery**.
- Designed test suite for different features in the application and performed different types black box testing techniques.
- Performed **sanity testing, smoke testing, functional testing** and **regression testing** after every feature enhancement.
- Conducted A/B testing of the application with selected audience on various UI/UX features.
- Wrote down automation suite for limited features on application Web UI using **Selenium Webdriver** for google chrome.
- Contributed towards API and database development of the application using **Java EE** and **MySQL**, respectively.

**Technologies:** HTML 5 | CSS 3 | Bootstrap 3.3.2 | Javascript | JQuery 2 | Java 7 | Selenium | Atlassian Jira | Github | MySQL | AWS EC2 and Beanstalk

##### Paytm (Web Application Testing)

- Wrote test scripts for web **test automation** and performed system testing
- Created test cases and tested GUI features of the application
- Created test cases and tested bill payment process for different features
- Wrote automation test scripts using **Selenium** and **Java** for the web application
- Used QC to maintain test cases for the application

**Technologies:** Selenium | QC

##### Customize and Buy

- Developed a web application where customer can customize the color of different components of product
- Application provides recommendation based on RGB values of customized product
- Recommendation products are rendered on recommendation page as SVG format
- Website link: <http://recommendationsyate-env.elasticbeanstalk.com/product-details>

**Technologies:** HTML | MySQL | AJAX | R programming | Adobe Illustrator | Twitter bootstrap

##### Multitenant SaaS Application

- Developed a multi-tenant design for a SDLC application to keep a track of tasks and project they were working on.
- The tenants had an option to choose any of the SDLC methodology i.e. **Scrum, Waterfall** or **Kanbanize** for project progress tracking.
- The application was developed using **MySQL, ExpressJS, AngularJS** and **NodeJS**.
- Created Schema and stored data in MySQL using **MySQL Workbench**. Application was deployed on **AWS-EC2** instance.
- Performed **UI testing** and **API Integration Testing** using **Selenium Webdriver** and **Postman** respectively.
- Created and maintained test suite for User Interface and application testing using **Elementool**.

**Technologies:** Selenium | Elementool | Node.js | JavaScript | HTML | CSS | Bootstrap | MySQL | AWS | Postman

#### PUBLICATIONS:

- Immersive visualization of Remote Sensing Data, Signal & Image Processing: An International Journal (SIPIJ) Vol.4, No.5, October 2013
- Behavioural Biometrics and Cognitive Security Authentication Comparison Study, Advanced Computing: An International Journal (ACIJ), Vol.4, No.6, November 2013