

SURBHI RAUTJI

SOFTWARE ENGINEER AND QA SPECIALIST

CONTACT

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PROFILE

Master's in Software Engineering degree holder and 3+ years of experience as software engineering with forte in QA engineering practices.

Key contributor to Hanumayamma Software QA Engineering and Development practices for clients and projects like 3k technologies and Dairy analytics, Sanjeevani application, etc., respectively.

Expertise in JavaScript, Selenium RC, Selenium WebDriver, XPath and CSS Locators, POM, Java, CSS, MySQL, Functional testing, Regression Testing, API testing, JUnit, TestNG, Jira, Agile, Test Planning, Documentation, Troubleshooting and debugging, etc.

With good work ethics, excellent communication and interpersonal skills, I am quickly able to adapt to new environment. I also bring in comprehensive problem solving abilities.

SKILLS

LANGUAGES & DATABASES:

JAVASCRIPT, JAVA, MYSQL,
POSTGRESQL, ORACLE 10G, JQUERY

TESTING TECHNOLOGIES:

SELENIUM WEBDRIVER, SELENIUM
RC, SELENIUM GRID, TestNG, JUNIT,
AUTOMATION TESTING, TestNG
LISTENERS, CSS SELECTORS, XPATH
LOCATORS, POM(PAGE OBJECT
MODEL), NEOLOAD, APPIUM,
TESTRAIL, JENKINS, BUGZILLA, JIRA,
ADVANCED REST CLIENT(ARC),
POSTMAN, AWS, MICROSOFT
AZURE, SHELL SCRIPTING, BATCH,
POWERSHELL.

EXPERIENCE

SOFTWARE ENGINEER, HANUMAYAMA INNOVATIONS AND TECHNOLOGIES

SEPT 2016 - PRESENT

- **Agile development** and cross browser testing of dairy analytics, a sensor motion analytics application for monitoring cattle movement and dynamics.
- Conduct native mobile apps testing using tools like Appium for targeted devices like Google Pixel (1st version), apple iPhone 6, 6s, 7 variants.
- Developed automation testing framework for company website, Sanjeevani EHR web application and Dairy Analytics application using Selenium WebDriver, TestNG and following POM (page object model) development paradigm.
- Enhanced framework automated data validation using Test NG and Selenium
- Maintain CI/CD pipelines using Jenkins, Scripting and Version Control
- Collecting **functional and non-functional** requirement in collaboration with Business Analysts, Project Managers and various other stakeholder
- Define and develop use cases, test scenarios, test strategies and test scripts
- 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.

WEB TECHNOLOGIES: JQUERY 2,
HTML5, CSS 3, SCSS, BOOTSTRAP
3.3.2, TABLEAU, NPM

OTHERS: GIT, MAVEN, GRADLE,
NPM, JIRA, BUGZILLA,
CONFLUENCE, SHELL, JENKINS,
AGILE, ECLIPSE, INTELLIJ, VSCODE,
UNIX, WINDOWS, MAC,
MICROSOFT EXCEL, MICROSOFT
OFFICE, AWS, EC2, S3, RDS,
AMAZON CLOUDWATCH, AMAZON
COGNITO

EDUCATION

SAN JOSE STATE UNIVERSITY

AUG 2014- MAY 2016

MASTER OF SCIENCE IN SOFTWARE
ENGINEERING

AMITY UNIVERSITY, NOIDA

AUG 2008 – JUNE 2012

BACHELOR OF TECHNOLOGY, COMPUTER
SCIENCE AND ENGINEERING

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

Cognitive Secure Shield – A Machine
Learning Enabled Threat Shield For
Resource Combined IOT Devices, S.
Rautji, C. Vupplapatti, C. Chauhan,
10.1109/ICMLA.2018.00175, IEEE , 17-
20 Dec. 2018

- 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**.
- Contributed to major client (**3K Technologies Inc.**) project with setting up Microsoft Azure Active Monitoring Event Hub, Connected Factories, developed scripts in JavaScript and Java for event triggering.
- Validated data points in **Cosmos DB** using **selenium** and **SQL Driver**, created end to end automation framework using selenium web driver, and performed quality test, API testing and created quality report for the application.

HTML 5 | SCSS | CSS 3 | Java | MySQL | Bootstrap 3.3.2 | AWS | Atlassian Confluence | Selenium Web Driver | JMeter | Atlassian Jira | Bugzilla | TestRail | Microsoft Azure | IOT Connected Factory | IOT Hub | Event Hub | Remote Monitoring Accelerator | Selenium Database Validation | Azure Cosmos DB | Microsoft Azure Data Lake | Java | JavaScript

SOFTWARE ENGINEER INTERN, NETSCOUT SYSTEMS

AUG 2015 - NOV 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.

Java | JavaScript | PostgreSQL | HTML | XML | JSON | Tableau | Microsoft Excel

SALES OPERATION ENGINEER, ORACLE CORPORATION

FEB 2013 – FEB 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.

PROJECTS

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.

HTML 5 | CSS 3 | Bootstrap 3.3.2 | JavaScript | jQuery 2 | Java 7 | Selenium | Atlassian Jira | GitHub | MySQL | AWS EC2 and Beanstalk

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.

Neoload | Bugzilla | Perfectomobile | Appium | Element Tool

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

Selenium | QC

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**.

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

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>

HTML | MySQL | AJAX | R programming | Adobe Illustrator | Twitter bootstrap