NABANJAN

Staff Software QA Engineer (Lead)

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**Summary**

Has extensive experience in object-oriented programming and development of Software TestingApplications using Javascript/Typescript/Python /Go/Java/Scala/C# in UNIX (HPUX/Sun Solaris/ Linux), Windows and Mac.

Looking for a challenging position as Software Test Automation development in Javascript/Typescript/Python/Go/Java/Scala/C# as a QE Lead. My extensive experience in industry and strong background in academics (please refer to qualifications) makes my fundamentals solid.

**Software Tools and Packages:** Django, Springboot, Spring, Hibernate, Okta(MFA), Mockito, AssertJ, Postgresql, Postman, Gatling, spincloud, docker, docker-compose, elasticsearch(Kibana), Rest APIs, datatest, django, celery, Jira, zephyr, VSCode, gdb, pytest, Selenium/Selenium 4, Nightwatch, Cypress, WebdriverIO, Appium + UI Automator, BDD, Cucumber, JBehave, Linux, perforce, svn, nginx, Nodejs, express, Fiddler, Saz Proxy, SQL Manager, Oracle DBMS, Clearcase, workshop, make, awk, sed, VC++ IDE, MySql, MS SQL, DBeaver, gnu tools, ACID, Apache Web Server, Tomcat, SOA, Hadoop, Hive, Apache Spark, Kafka, JMS, Docker, Apache Portable Runtime library, wireshark, netcat, openssl, configure, auto\_conf, cunit, VMWare, vSphere, Hyper-V, AWS, GCP, Azure

**Technical skills**

**Software Languages:** Python, Java, Scala, C#, Php, SQL, PL/SQL, C, C++, Go

**Scripting Languages:** Typescript, Javascript, AJAX, JQuery, Groovy, Tcl, csh, ksh, bash,

Perl,Python, Ant, Ivy

**Platforms: Operating Systems: Editors: Networking and Concurrency Skills:**

HP, Sun, Sun Sparcs, 386, 486, Pentium versions

Unix(Solaris, SunOS, Linux, HP-UX), DOS, Windows versions.

vi, VC++ IDE, eclipse, vim & gvim, pycharm,

intellij, VSCode

Go Routines, Go channels, OpenCV, Sockets, TCP/IP,

UDP, HTTP, shared memory, pipes, fifos, multi-

threading, mutex, conditional variables

**EXPERIENCE**

**Topcon, Inc., Livermore, CA,**

**Sr Staff Software QA Consultant (Lead) June, 2023 to present**

Topcon Positioning Systems, Inc. (TPS) designs and manufactures precise positioning products and solutions.Project is implementing software on Satellite receivers. Converters, Loggers, Power button monitoring for different actions - poweroff, recording, poweron, ...

# Responsibilities:

* Python scripting for installing the software
* Shell scripting for the entire flow for the release
* Lead the test automation and dev-ops team
* Test automation of the validation of the functionalities

1. **UI Tests using Java/Selenium for all new UI design elements**
2. **Proxy mocking so that the UI can work locally when no internet access is there – proxy to backend**
3. **Migrating UI Tests to new framework in Cypress**

* Incorporating the test automation in CI/CD
* Led cross-functional teams in the successful deployment of Ariba modules, enhancing collaboration between procurement, finance, and suppliers.
* Led the migration of existing test suites to Playwright, reducing test execution time by [20]% and increasing overall test coverage.
* Developed and executed training programs for end-users to maximize the utilization of SAP Ariba functionalities.
* Implemented Kafka Connect for data integration, enabling efficient and scalable data transfer between systems.
* Test Automation (Front-end and back-end) of the website of the releases – Python/Django for backend of website
* Debugging C/C++ embedded system code for bug fixes – CMake for builds – Clion for IDE
* Collaborated with development teams to implement best practices for YAML file structures, improving readability and maintainability.
* Worked closely with product owners and stakeholders to refine user stories and prioritize backlog items in Agile sprints.
* Developed and executed ETL test cases and scenarios to validate data transformations, ensuring accuracy and completeness.

**Technologies**: Java, C/C++, Selenium, Appium, Cypress, AWS EC2, Python, Django, Rest Assured, TestNG/JUnit, IntelliJ, nginx, Jira, git, zephyr, Confluence, TestRail, VSCode, Jenkins, tcpdump, CMake, Clion

**Meta, Inc., Menlo Park, CA,**

**Lead Software Consultant (Lead) Jan, 2023 to May, 2023**

Software Consultant to the Operational Datastore Team (ODS). An operational data store (ODS) is a central database that provides a snapshot of the latest data from multiple transactional systems for operational reporting.

# Responsibilities:

* Doing projects in python (rate card tool)/shell scripting (removing client source code of php/C++ clients sending spam data)
* UI Tests using Java/Selenium for the ODS dashboard – incorporating all new UI design elements

# Technologies: Java, Selenium, Shell scripting (bash), IntelliJ, Junit

**Grid Dynamics, Inc., San Ramon, CA,**

**Staff Test Automation Software Engineer (Lead)** Sep**, 2021 to Sep, 2023**

Client(inside Apple) needed this project for Test Automation of the Recommendation engine. Another client in the same company needed a project to design/build the Backend Test Automation framework of 3 projects. Gave a demo of how to use Cypress and advantages of using Cypress over the webdriver IO framework for UI Test Automation.

# Responsibilities:

* Working on Test Automation frameworks and Backend Tests - springboot for unit/integration tests and testng/rest assured for end2end/integration tests
* Performance testing - Scala/Gatling for Load Testing, Go for Stress Testing
* Test Automation Framework Solution architecture design and implementation
* Clarifying requirements with stakeholders
* Estimating features and CRs
* Tests Development in the framework

1. **UI tests for new features using Selenium/BDD/Cucumber – test machines are in AWS EC2 (S3 for large file storage) – deployed on demand**
2. **API testing of new features using Rest Assured – test machines are in AWS EC2 – deployed on demand**

* Performing code reviews of peers
* Participating in backlog refinement, planning and demos

# Technologies: Java 8, Scala, Go, Mockito, API testing, UI testing, End2end testing, AssertJ, Cypress, Javascript, Typescript, Selenium 4, Appium, TestNG/Junit, Rest Assured, BDD, Cucumber, JBehave, Maven, Gatling, Jenkins, Postgresql, DBeaver, Spincloud, Kubernetes, Docker, Jira, Radar, Confluence, Postman, AWS (EC2, S3), Spring, Springboot, Hibernate

**Equinix, Inc., Sunnyvale, CA,**

**Staff Software Quality Engineer (Lead) Jul, 2020 - July, 2021**

Employer needed this project for Cloud Exchange Fabric rollout by Harmonization of service profiles

# Responsibilities:

* Worked on Cloud Exchange Fabric rollout
* Harmonization of service profiles
* Creation of connections, etc. and Test Automation
* Test Automation Framework Solution architecture design and implementation
* Tests Development in the framework

1. **UI tests for new features using Selenium/BDD/Cucumber and Cypress – test machines are in AWS EC2 (S3 for large file storage) – deployed on demand**
2. **API testing of new features using Rest Assured – test machines are in AWS EC2 – deployed on demand**

* Performing code reviews of peers
* Participating in backlog refinement, planning and demos

# Technologies: Java 8, Intellij, MySql, Postgresql, Rancher, Kubernetes, Docker, Selenium, Cypress, Javascript, Typescript, BDD, Karate, Cucumber, Azure, AWS, Jira, zephyr, Confluence, Postman, Spring, Springboot, Hibernate, Mockito, Junit/TestNG

**Egnyte, Inc., Mountain View, CA,**

**Staff Software Quality Engineer (Lead) April, 2019 – June, 2020**

Employer needed this to create the next generation caching solution - smart cache

# Responsibilities:

* Working on the next generation caching solution (branded as smart cache) product of Egnyte - improving the enterprise file sharing experience by having a caching layer in the on-premise device for automated relevant syncing of folders/files with no manual intervention, and better user experience and performance.
* Architecting/Developing end2end test automation framework (Web & Desktop - windows/mac)
* Performance testing automation framework – did in depth performance testing starting with apache bench and moving on to JMeter
* Monitoring/Debugging using Grafana and Kibana dashboards – was involved in debugging/monitoring using Grafana and Kibana dashboards

# Technologies: Python, Go, Powershell, vscode, Restful APIs, pytest, Groovy, Docker containers (docker, docker-compose), Elastic Search (Kibana), nginx, make, cmake, Kubernetes, JMeter, Jira, Jenkins, CI/CD, Confluence, VMWare Esxi, Hyper-V, Grafana, AWS, Google Cloud, Linux, windows, Postman, AWS (EC2, S3)

**Conviva, Inc., Foster City, CA,**

**Senior Test Automation Engineer (Lead) April, 2017 – Feb, 2019**

The Employer needed this to create the test automation framework for post release testing of the product to clients. Also, the legacy full-stack product had to be maintained

# Responsibilities:

* Maintenance of functionality, robustness, performance and scalability – in Python/Django
* **MFA (Okta)** testing of internal websites (mainly https://touchstone.conviva.com/)
* Architecting and developing automation frameworks for end2end and regression testing (python - multithreading, java, testng, selenium, appium, py4j)

1. **UI tests of new features – test machines in AWS EC2 (S3 for large files) – deployed on demand**
2. **API testing using python framework - test machines in AWS EC2 (S3 for large files) – deployed on demand**

* Architected scalability from 1 to 4 backend servers using master-slave configuration of redis db to mitigate nfs load
* fab for deployment, F5 for load balancing, AWS EC2 for the compute engine, Grafana for monitoring

# Technologies: Python, Django, Java, Selenium, Junit/TestNG, Okta, Rest API, Python, Kubernetes, JMeter, Jira, Jenkins, CI/CD, Confluence, Grafana, AWS (EC2, S3), Google Cloud, Postman

**NextGenTechnologies, Inc, San Jose, CA,**

**Senior Automation Engineer (Lead) May, 2016 – March, 2017**

**Client: Walmart Labs, Sunnyvale, CA Feb, 2017 to May, 2017**

**Senior Consultant**

* Automated the Testing of Payment systems of Walmart Labs (Wangea Payments)

**Languages and Tools used:** Java, Eclipse, Maven, Junit

**Client: GE Digital, San Ramon, CA) June, 2016 – Jan, 2017**

**Senior Consultant**

* + Automation of test framework development and tests using selenium protractor for Predix Iot Efficiency Analyzer product - Protractor, BDD, Cucumber

**Instart Logic, Inc., Palo Alto, CA**

**Member of Technical Staff April, 2014 – April, 2016**

Employer needed this project to improve on being just a CDN provider by browser client side and backend integration and interaction to improve loading time of enterprise websites.

# Responsibilities:

* + Worked with the team for end to end tests in typescript, javascript – nodejs, express – the feature was Html Streaming – a performance optimization feature where a common head of html is cached in a learning period for the website while going through a proxy. The head is served before the body arrives from origin website to get a head start in downloading resources by t
  + Lead the team creating a CI framework in Jenkins using Docker containers using Jenkins DSL – **Groovy** language was used to build the framework
  + Built browser automation framework using Java Selenium and mobile app using Appium + UI Automator(Android) and Appium + XCUITest (iOS)

**Technologies:** Jira, Groovy, Selenium, Appium, Nightwatch, UIAutomator, XCuiTest, pycurl, Python, nose, Java, Multithreading, Linux, HTML, CSS, NodeJS, Javascript, Typescript, Express, Ubuntu, Docker, Git, Confluence, Xen-Server, Postman, Rest API

**Riverbed, Inc. San Francisco, CA,**

**Member of Technical Staff April, 2012 – April, 2014**

Employer needed this project to merge a Load balancer(Zeus) and front-end web content optimization(Aptimizer) into single product by porting C# code to C++ code needed by the load balancer

# Responsibilities:

* Worked successfully on creating an end-to-end test automation infrastructure in C#/Selenium for end-to-end tests
* Worked with the testing team to work on Web Content Optimization(front end optimization) in Aptimizer to do rest API testing of backend using pycurl
* Lead the design and development of the test infrastructure in C# to test load(cpu, memory, …) in graphs
* Proposed, designed and developed by leading the team to create a set of scripted tools to tests the robustness of the tool (figure out which sites crashes the tool) by running the entire flow through the 11000 websites overnight ( website names obtained from the free trial used by the potential customers) without the help of any other human resource.

# Technologies: C++, C#, Selenium, PyCurl, Perforce, Jira, Confluence, Clonezilla, bash scripting

**Education and Certificates**

**EDUCATION:**

M.S. in Computer Engineering

Department of Computer Engineering, Santa Clara University, Santa Clara, CA

(Part-time Graduate Student) Graduated in Dec 2009. GPA: 3.8/4.0

**B.S.** in **Computer Science** & **Engineering**

Indian Institute of Technology(IIT), Kanpur, INDIA, GPA: 8.3/10.0 ( equivalent to 3.3/4.0 )

**Projects involved:** pipes, shared memory, fifos, sockets, multi-threading ( techniques for handling concurrency – mutexes, read/write lock, conditional variables, semaphores ), database concepts ( SQL, joins, indexing and sorting algorithms

**AWARDS:**

Best B.S. project award in Computer Science & Engineering, TCS award for best project in CAD/CAM, ATTA Person Award in SUN Microsystems, Inc.

**PATENT:** Author of a patented algorithm for global placement. - No. 7370305 - Method and apparatus for facilitating cell placement for an integrated circuit design. [**http://www.patentgenius.com/patent/7370305.html**](http://www.patentgenius.com/patent/7370305.html)

**Languages**

* English - B1
* Assamese, Hindi - Native Speaker