NABANJAN DAS

Staff Test Automation Software Engineer (QE Lead)

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Summary

Has extensive experience in object oriented programming and development of Software Applications using Python /Go/C/C++/Java/Scala/C#/Php/Javascript in UNIX (HPUX/Sun Solaris/ Linux) and Windows. Looking for a challenging position as Software Applications development in Python/Go/C/C++/Java/Scala/C#/Javascript as a QE Lead. My extensive experience in industry and strong background in academics (please refer to qualifications) makes my fundamentals solid.

Technical skills

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

Scripting Languages: Groovy, Tcl, csh, ksh, bash, Perl, Python, Ant, Ivy, Javascript, Typescript, AngularJS, AJAX, Javascript, JQuery

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

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

Editors: vi, VC++ IDE, eclipse, vim & gvim, pycharm, intellij, VSCode

Networking and

Concurrency Skills: Go Routines, Go channels, OpenCV, Sockets, TCP/IP, UDP, HTTP, shared memory, pipes, fifos, multi-threading, mutex, conditional variables

Software Tools and Packages: Postgresql , Gatling, spincloud , docker, docker- compose, elasticsearch (Kibana), Rest APIs, datatest , django , celery, Jira, zephyr, vscode , gdb , pytest , Selenium, Cypress, webdriverIO , Appium + UI Automator, B DD , 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

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**

Languages

- ● English - B1
- ● Assamese, Hindi - Native Speaker

EXPERIENCE

Grid Dynamics, Inc., San Ramon, CA, Staff Test Automation Software Engineer (QE Lead)
Oct, 2021 to Present

Client(inside Apple) needed this project for Test Automation of the Recommendation engine. Other 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:
- Clarifying requirements with stakeholders
- Estimating features and CRs
- Test Automation Framework Solution architecture design and implementation
- Tests Development in the framework
- Performing code reviews of peers
- Participating in backlog refinement, planning and demos

Technologies:
- **Java 8/11, Scala, Cypress, WebdriverIO, TestNG, RestAssured, API Testing, BDD, Cucumber, JBehave, Maven, Gatling, Jenkins, Postgresql, DBeaver, Spincloud, Kubernetes, Docker, Jira, Radar, Confluence**

Equinix, Inc., Sunnyvale, CA, Staff Test Automation Software Engineer (Lead)
Jul, 2020 - Sep, 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
- Performing code reviews of peers
- Participating in backlog refinement, planning and demos

Technologies:
- **Java 8, Intellij, MySql, Postgresql, Rancher, Kubernetes, Docker, Selenium, Cypress, Javascript, BDD, Karate, Cucumber, Azure, AWS, Jira, zephyr, Confluence**

Egnyte, Inc., Mountain View, CA, Staff Test Automation Software 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.
- Development/Maintenance/Feature Enhancements for infrastructure for smart cache – Python/Go/C
- **Architecting/Developing build end2end test automation framework (Web & Desktop - windows/mac), component level test automation framework and performance testing automation framework - uses python, bash shell scripting, python libraries (pytest and other libraries), jmeter and apache bench. 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**

Conviva, Inc., Foster City, CA, Staff Test Automation Software Engineer (Lead)
April, 2017 – March, 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:
- Full stack developer(including Site Reliability) for legacy video analytics portal - touchstone.conviva.com/ - analytics for streaming videos in formats like DASH, HLS, MP4, HTML5 and so on.
. Maintenance of functionality, robustness, performance and scalability

. Integration with Okta for SSO

. Architecting and developing automation frameworks for end2end and regression testing (python - multithreading, java, testng, selenium, appium, py4j)

. 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, 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, Apache Spark, Kafka**

NextGenTechnologies, Inc, San Jose, CA, Staff Software Engineer (Lead)
May, 2016 – March, 2017

Client: Walmart Labs, Sunnyvale, CA Feb, 2017 to April, 2017
Senior Consultant
- **Automated the Testing of Payment systems of Walmart Labs (Wangea Payments)**
  Languages and Tools used: Java, Eclipse

Client: GE Digital, San Ramon, CA)   Oct, 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(Automation Lead)
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**

Technologies:
- **Jira, Groovy, Selenium, Appium, pycurl, Python, Java, Multithreading, Linux, HTML, CSS, NodeJs, Javascript, Typescript, Express, Ubuntu, Docker, Git, Confluence, Xen-Server**

Riverbed, Inc. San Francisco, CA, Member of Technical Staff(QE Lead)
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 integrating the product with Stingray (a load balancer – another acquisition of company named Zeus by Riverbed) which makes it works with any web server (C# code converted to C++), Maintained code in C++
- 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++, C#, Selenium, PyCurl, Perforce, Jira, Confluence, Clonezilla**

Canvas Infotech, Inc, San Jose, CA, Senior Software Engineer
June, 2009 – March, 2012

Client: Narus, Inc., Sunnyvale, CA   Nov 2010 – March 2012
> **Senior Software Engineer(Infrastructure team lead)**
> Narus is a cyber- security firm working on real time IP traffic intelligence using a scalable distributed system – deployment project of Narus components - **Hadoop, Hive, Java, JMS**
> **Client: Hitachi Data Systems, Santa Clara   Feb 2010 – Oct 2010**
> **Senior Consultant**
Agent-less reporting project – cpu, partitions, hba, ... **C language**
> **Client: YouSendIt, Inc., Campbell, CA June 2009 – Jan 2010**
> **Senior Consultant**
> **YouSendIt** is a web-based digital file delivery system based on SaaS model – Apache C module
> for Upload/Download - **C language, Php, shared memory, Apache 2 webserver,**
> **Apache Runtime Library**

Sun Microsystems(later Oracle), Inc. Santa Clara, CA,

Member of Technical Staff
Sep, 2004 – June, 2009

Employer needed these software products to design sun hardware.

Responsibilities:

> - Worked on Global Placement tool and In- memory database - Software tools to help in design of Sun Microsystems hardware.

Technologies:

- **C/C++, Clearcase, Sun Compiler, Solaris**