

# Panth Shah

## Quality Assurance Analyst - ServiceLink IP Holding Company, LLC

Chicago, IL - Email me on Indeed: [indeed.com/r/Panth-Shah/54a1ec25f85749a7](https://www.indeed.com/r/Panth-Shah/54a1ec25f85749a7)

- Illinois Institute of Technology online graduate student major in Computer Engineering, System and Software professional.
- Experience in working with Software Development Life Cycle and Bug Life Cycle for Software system development and management, analysis, database creation and management, maintenance.
- Involved in various stages of Software Development Life Cycle (SDLC) implementing Agil methodology.
- Experience with Software Quality Assurance testing on Backend/Database, Frontend/GUI, Web Services, Data Driven Applications using Manual testing schemes.
- Experience in analyzing Business Requirements using Functional & Business Requirement Documents for requirement specific software development and enhancements.
- Hands on experience in unit testing, functional testing, black box testing, Regression testing, Ad-Hoc testing and non-functional testing.
- In depth understanding of effort estimation and analysis, system test planning, test case design and execution of test cases with positive and negative scenario.
- Extensive experience in using Microsoft Team Foundation Server (TFS) for defect tracking and Microsoft Test Management (MTM) for Test Case/Test Suite design and execution.
- Experience in external data source integration testing and functional testing of web services using SoapUI.
- Extensive experience in working with SQL server using SQL Server Management Studio tool.
- Solid understanding of Relational Databases such as SQL Server, MySQL & SQLite.
- Involved in writing database scripts and queries to perform CRUD functions over persistent storage to validate data and dataflow for Backend Database Testing.
- Experience in validating store procedures to test reports generated from the reporting services such as SSRS.
- In-depth understanding and experience of mortgage and finance industry and services provided to clients on web environment.
- Have a knowledge of Python as a scripting language.
- Modeled manual test cases and Automated test scripts to devise the performance of the system software.
- Good understanding of Big Data technology, Hadoop framework and Hadoop components such as MapReduce, YARN and HDFS.
- Good knowledge on Apache Server on Ubuntu, phpMyAdmin, MySQL workbench and terminal programming.
- Good understanding of tools such as PyCharm, Jupyter, Eclips IDE for Java Developers and MATLAB.
- Effective presentation and excellent communication skills which is required for an effective.
- Worked as a mentor and president with university student organization affiliated to IEEE.
- Effective team player with an ability to perform multi task at the same time by maintaining deadline constrain.
- Good familiarity with LINUX commands.
- Good command over Computer Networks topology designing, configuration, testing and system integration.
- Palo Alto certified Accredited Configuration Engineer (ACE)
- Excellent analytical, presentation and communication skills with strong ability to facilitate easy and transparent exchange of information and

effective content presentation across the team.

## WORK EXPERIENCE

### Quality Assurance Analyst

ServiceLink IP Holding Company, LLC - Coraopolis, PA - February 2016 to Present

- Analyzed business requirements using requirement documents (BRD/FRD) and translating it into software solutions.

- Responsible for Creating test plans, designing test cases and test scenarios, and executing the test case using Microsoft

Test Manager (MTM).

- Keep track of bug fixes, reporting and tracking defects in testing environment for business application using Microsoft

Team Foundation Server.

- Performed Web Application and Web Services testing in the Banking, Financial and Mortgage Domain by performing

Smoke test, Functional & Integration test, End-to-End & User Acceptance test, Database test and Regression test.

- Involved in managing offshore QA resources by reviewing daily work assignment and providing brief problem solutions

for the optimum resource utilization.

- Created Positive and Negative Test data in XML files and Legacy Files for Mortgage products to support UAT for

Business Rule Validations

- Conducted web services testing using SoapUI, XML and WSDL for web application.

- Developed and executed SQL-queries/procedures to validate Data persistence and Data integrity in Web Application.

- Worked with IBM Business Process Manager (BPM) as a part of functional/non-functional testing to manage, monitor

and improve business processes in the form of application Tasks and to analyze process instance migration between

versions/snapshots.

Skill Areas: Software Testing & Debugging, Configuration & Troubleshooting, User Training & Support, Project Management, Test Plans & Script Development, Technical System Specifications Writing

### Trainee

Hitachi Hi-Rel Power Electronics Pvt. Ltd - Gujarat, IN - June 2013 to May 2014

Gujarat, India June 2013 - May 2014

- Analyzed and tested problems related to efficiency of rectifier in AC to DC power conversion. •

- Devised various techniques for uncontrolled and controlled rectifier to improve efficiency and maintaining quality assurance of the system. •

- Computed and tested an automated system which optimized power conversion for power system devices. •

- Involved in test case design, Smoke testing, Unit testing, Functional testing and System Testing •

Technical Skills:

- Programming Languages, Tools & Technologies: Python, Java, C, SQL, Assembly Language,

- Databases: Microsoft SQL Server, MySQL, SQLite

- Simulation Tools (IDE): NetBeans, Eclipse, Matlab, Simulink, Keil, Scilab

Microsoft Team Foundation Server (TFS), Microsoft Test Manager (MTM), SQL

- Tools & Technologies:

Server Management Studio, SoapUI, NS2, TCP/IP, IP Addressing, Subnetting  
Black-box Testing, GUI Testing, Unit Testing, Integration, Regression Testing,

- Testing Techniques:

Functional Testing, Smoke Testing, Ad-Hoc Testing and Re-Testing

## EDUCATION

### **Master of Science in Computer Engineering**

Illinois Institute of Technology - Chicago, IL

2015 to 2017

### **Bachelor of Engineering in Electronics & Communication**

Shankersinh Vaghela Bapu Institute of Technology - Gujarat, IN

2010 to 2014

## SKILLS

Python (Less than 1 year), SQL (2 years)

## CERTIFICATIONS/LICENSES

### **Accredited Configuration Engineer (ACE) Exam - PAN-OS 7.0 Version**

September 2015 to Present

### **Managing Big Data with MySQL**

February 2016 to Present

## PUBLICATIONS

### **Computer Aided Automated Lung Nodules Detection System in Computed Tomography**

April 2016

Many people worldwide die due to cancer and one of them is Lung Cancer. Many times it is caused because of the late diagnosis of the malignant cells present which are difficult to identify. Nodules or lumps present in the lung can be difficult to observe as ribs and vessels are also detected in the radiograph or in tomography. To determine the presence of nodules, a Computer Aided Detection (CAD) system is used on the CT (Computed Tomography) images.

Here, we introduce a methodology that makes it easy to interpret whether the nodule is present or not, with the aid of Rule-based scheme which offers the choices or deduction in its approach method. The aim is to select effective features and classify the localized abnormal structural change using Rulebased system along with connected component labelling. This accommodates practically removing the unwanted objects i.e. the normal structures from the area of interest such as objects too small or too large or objects that are not circular enough. In the proposed methodology, one of the goals is the reduction in false positive rate of nodule detection. The elimination of the unwanted objects can make it possible and the observed nodule can further be determined as malignant or benign by the doctor.

### **Interfacing of MATLAB with Arduino for Object Detection Algorithm Implementation using Serial Communication**

October 2014

The paper explains proposed algorithm for object detection using image processing and manipulation of the output pin state of Arduino board with ATmega 8 controller by tracking the motion of the detected object. The object detection algorithm has been developed on MATLAB platform by the combination of several image processing algorithms. Using the theory of Image Acquisition and Fundamentals of Digital Image Processing, the object has been detected in real time. Various features of an object such as the shape, size and color can be used to detect and track the object. The variation in vertical and horizontal axis of detected object is moderated by serial communication port and using serial data communication, the state of Arduino board pin has been controlled. MATLAB programming develops a computer vision system in the real time for object detection and tracking using camera as an image acquisition hardware. Arduino programming provides an interfacing of a hardware prototype with control signals generated by real time object detection and tracking.

### **A brief review of algorithm for Automatic License Plate Recognition (ALPR) System**

January 2014

This paper explains the intelligent way of surveillance in the road transport system dealing with the traffic rules. Automatic recognition of vehicle number plates for Indian roads is the system to make Indian transportation system Intelligent and safe. License plate recognition system plays major role in the maintenance of traffic rules. Intelligent computer vision based this system follows the image processing algorithm which is a combination of basic morphological algorithm, edge detection algorithm, character segmentation and recognition algorithm and algorithm for character extraction of the captured digital image of the number plate. Among this, character segmentation and recognition is one of the difficult tasks to be done. To make an efficient system, the accuracy of character extraction from number plate should be higher. This system deals with several real-time environment based parameters like which are adhesion, lighting condition, rotation, fracture, rivet, yellowness, reflection of light. These parameters degrades the accuracy of character segmentation and recognition. Numerous algorithms by different researchers from different fields were given regarding this system. This paper categorize them and shows the accuracy of them on real-time constrain.

### **ADDITIONAL INFORMATION**

- Methodologies: Agile, Waterfall, Bug Life Cycle, SDLC
- Documentation Tools: MS-Office, MS Excel, MS-Powerpoint
- Browsers: MS Internet Explorer, Mozilla Firefox, Google Chrome
- Platforms (Operating Systems): Linux, Windows XP/Vista/Windows 7/8/10, Android, xv6
- Programmable Devices: Raspberry Pie, ZigBee, Arduino