

PIYUSH SHARMA

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IT PROFESSIONAL – TEST ARCHITECT/MANAGER

MCA, Big Data & Hadoop Certified offering 12.7 years of rich experience in executing Agile Based - Test Management & QA Projects for delivery of defect-free and high-quality software as per global market / customer requirements

AREAS OF EXPERTISE

Test Management

Test Artifacts & QA Strategy

Agile-Scrum Methodology

Software Testing / QA

Big Data ETL Testing

Test Automation Strategy

Data / Business Analysis

Onsite -Offshore Coordination

MDM Testing

**Domain Skills: Healthcare,
Retail, BFSI**

- **Performance-Driven Test Architect/Manager;** skilled in **QA process management** from **requirement analysis, test cost & effort estimations, POCs, resource planning, progress tracking, status reporting to QA** and ensuring delivery of projects within time, budget, SLAs & quality norms
- Experience on the **Operations + processes** and **handling large team** with Proficient in **Software Testing Lifecycle (STLC)** entailing preparing **test plans / strategy, setting-up of test lab/QA environment,** reviewing test suites, defect/change management & ensuring timely releases across different phases of SIT, UAT, JUAT, Prod Parallel and Production
- Diverse **Testing Experience** entails **BDD & TDD Driven - Big Data ETL Testing, DWBI, Automation Testing,** Integration Testing, Regression Testing and Module Testing; successfully:
 - Led **completion of complex critical tests on a tight schedule** & ensured proper Test Coverage as per defined Quality Standards
 - Applied **Agile - Scrum Methodology & Implementation of Best Practices** for optimizing test results, team productivity and overall product quality
- **Drove Test Automation Plans** Coordinate studies and implement new procedures and techniques. , shortening testing cycles and enhancing accuracy; technical expertise in **Python, Shell & Query Surge**
 - Basics of **Java** and knowledge on **Selenium**
- **Customer-centric Test Engineer;** designed **customized QA Strategies / Test Artefacts** to meet client's complex business requirements; worked as a **Data Analyst/Expert** at **client locations such as AIG, Target India, Morgan Stanley & Aadhaar (UIDAI)** as well as **onsite at UK**
- **Result-oriented Leader** with talent in managing **globally distributed QA teams,** handling 40+ members and enabling knowledge-sharing amongst them; problem-solver with strong analytical & negotiation skills

Notable Accomplishments Across The Career:

- Steered robust **Quality Process / Software Testing** (Functional/Non-Functional Requirements, Integration) and exhibited excellence in:
 - Managing Data Cleansing, Data Profiling, Data Mapping and **monitoring of Production Data on Big Data using Hadoop**
 - Leveraging **HQL & SQL for data quality, correctness,** consistency as required in different environment validations
 - Organizing and maintaining the end to end testing approach/data expectations for UAT/JUAT/Prod-Parallel job schedules
 - Coordinating with **Partners, Data Center, UNIX and DBA Teams in planning Code Elevation** to higher environment
 - Utilizing BDD approach for simulating scenarios; **performing API Testing** using the tools such as Postman
 - **Testing Continuous Integrated Environment;** analyzing project risks/ critical defects, recommending corrective actions
- Credited for working on User Stories, **facilitating Scrum Ceremonies (Grooming, Sprint Planning/Review, Retrospectives & Daily Stand-up Meetings)** on frequent basis to identify problems and drive continuous improvements
- Understand the service architecture and handle complex escalations working with various projects
- Have good experience on **on-boarding/hiring** the applicants, Building the Team from scratch, mentoring, Training, and guiding them,
- Promoted to sr. positions for excellent performance and received **various awards & appreciations** like
 - **Pat on the Back Award from client in Aadhaar Project; Recognition Award** for successful completion of EGP Project (Client: Target)
 - Master Mind Award for contribution to DWBI Testing Practice of Mindtree
 - **Outstanding Performer Award** for outstanding contribution in different projects during FY 2015-2016

TECHNICAL SKILLS:

Software: Hbase, Cassandra, HQL, Hadoop, SQL, PL-SQL, Python, UNIX, DWH & Testing Concepts

Languages: Python, Shell, Basic Java / **Operating System:** Windows98/NT/2000/XP/Vista/Linux

Databases: Oracle 8.0, Sybase, Teradata, NoSQL, MongoDB / **Test Management Tools:** HP-ALM Version 9.2 & 11, Version One- 15, Jira

Manual Testing Tools: DB Artisan Version 8.1.2, Teradata SQL Assistant 14.01.0.02, AQT Version 09.07.0002, Salesforce, Wipro's Wipcafe Tool, Capo, EDG, Orion 2, Client Tracker, Clear Quest, Requisite Pro, Rational Manual Tester

Reporting Tools: Pentaho Report Designer, Mondrian Schema Workbench, BOXI

Career Path

2008 -2011: Wipro as Project Er.

2011 - 2017: Mindtree: Sr. Test Engineer / Test Lead

Since 2017 - Mindtree As Test Manager

WORK EXPERIENCE

Since Jul'11: Mindtree, Bengaluru presently designated as Test Manager

Nov'08 – Jul'11: Wipro, Bengaluru as Project Engineer

Ongoing Project:

Title: FRI	Period: Feb'20 – Till Date
Client: Philips	Role: Test Manager/Architect
Tools & Technology Environment	: Informatica MDM, SAP, Microsoft Azure : CentOS Linux, Windows
Description:	Finance Reporting and Integration Track(FRI) has multiple sub-projects on Informatica MDM, SAP and Database The delivery of the projects included both manual and automation testing.

Responsibilities:

- SPOC for Project stakeholders for the 10+ projects on FRI Track.
- Strategizing the roadmap for testing the functionalities for the project from scratch, Onboarding resources.
- Overlaying feasible Automation Test plan and tools, Initiating feasibility checks/POC's for Automation
- Adhering and maintaining the KPI Metrics
- Scheduling & executing the Software Testing Lifecycle; conducting system study and coordinating for Testing Integration
- Understanding the **Product and Healthcare Domain and creating the Test Scenarios from Test Plan** as per the business requirements
 - Complete Ownership of testing activities for SIT, RT, UAT support, OQ validations and signing off for production go-ahead
 - Handling **40+ Team members** working on different technologies on the project such as Informatica MDM, ETL Testing, SAP PO testing, eGRC testing etc.
 - **On-boarding** resources for new project and laying the plan for initiating testing activities.
 - Conducting defect Triage and Defect Retrospective meetings for Scrum Teams
 - Adhering to the timelines for SIT, RT as per release plan
 - Communication with Delivery Manager for the regular status on progress and challenges
- Performing Gap Analysis and Test Reviews to ensure that business requirements & specifications are tested & fulfilled
- Resource upskill plan for the stakeholders to make them from Functional testers to Automation Testers.
- Preparing and **maintaining Requirement Traceability Matrix**; ensuring maintenance of end-to-end testing approach
- **Publishing reports based on Test Findings/ Test Status for tracking & communicating test results** & unresolved problems such as:
 - Weekly Status Reports to Delivery Manager and stakeholders on the project
 - Weekly Status Reports for the project health Dashboards.

EDUCATION

MCA from PESIT, Bengaluru, VTU, Belgaum) in 2008; secured 1st Class (75%) and distinction in all semesters

B.Sc. - Computer Science from Mohanlal Sukhadia University, Udaipur in 2005; secured 64%

Certifications / Trainings:

- Certified on Big Data and Hadoop from Biwhiz
- Certified on Python from Edureka

PERSONAL DETAILS

Date of Birth : 28th June 1983
Address : RR Nagar, Bengaluru – 560098
Languages Known : English & Hindi

Location Preference: Bengaluru
Please Refer to Annexure for Key Projects Executed

ANNEXURE

KEY PROJECTS EXECUTED

Title: FDIP (Manual / Automation Testing)

Period: Oct'18 – Jan-20

Client: Aberdeen Standard Life (UK)

Role: Test Manager

Tools & Technology : HBase, Cassandra, Hadoop, Hive, HQL, Zeplin, Hue

Environment : CentOS Linux

Description: FDIP project delivery work package undertakes detailed design, Build, Test and Production Implementation for providing a platform for delivering investment, performance and fund data. In the end-state the data from various sources will be provided to consuming applications or 3rd parties for generating the reports through ETL jobs for Factsheets/Client Reports and Translations

Responsibilities:

- Coordinating on-site & offsite tasks in a project and preparing Test, Risk & Change Control Plans and SOPs for Testing
- Preparing and **owning Test Plan & Test Strategy for 3-different teams - Client Reporting/Factsheets/Translations** in the project
- Strategizing the roadmap for testing the functionalities for the project from scratch
- **Preparing Automation Test Strategy** and figuring the possible modules which can be automated and can be started with a POC
- Working as an Onsite Coordinator for entire QA Team (3 different teams) and streamlining all the QA activities
- Scheduling & executing the Software Testing Lifecycle; conducting system study and coordinating for Testing Integration
- Understanding the **Investment Domain and creating the Test Scenarios from Test Plan** accordingly for the business requirements
- Creating the Code in Shell for the metadata validations of the ETL Data; taking complete ownership of:
 - Test Phases for all the 3 different teams in SIT, UAT, Production Parallel for application testing
 - Defect Management Process for all the 3 different teams in SIT, UAT JUAT, Production Parallel and Production
- Facilitating **UAT and JUAT, Prod Parallel Runs** for the implementation of the prod deployments
- Performing Gap Analysis and Test Reviews to ensure that business requirements & specifications are tested & fulfilled
- Preparing the QA Run Books for implementation of code elevation in SIT, UAT, JUAT & Production Parallel
- Coordinating with Support Team for securing the environment instances for different testing phases of SIT/UAT/JUAT
- Preparing and **maintaining Requirement Traceability Matrix**; ensuring maintenance of end-to-end testing approach
- Providing Test Effort Estimation for the upcoming new modules, Test Estimation for Regression and End-To-End Test Suites
- **Practicing Agile Methodologies** and ensuring that the Test Team is up to the mark and equipped with tasks in the Sprint
- Making communication efforts to establish a common understanding of required product quality
- Steering regular two-way communication with the client on daily updates and expectation from daily status reports with accuracy
- **Publishing reports based on Test Findings/ Test Status for tracking & communicating test results** & unresolved problems such as:
 - Test Completion Reports for each sprint in SIT; Test Completion Reports for UAT, JUAT, Prod Parallel and Production
 - Data Expectation Tracker for UAT and JUAT Testing
- **Providing the walkthrough on the Test Cases** to the client Business Analyst Team
- Providing leadership & technical guidance to both Onshore & Offshore QA Team and motivating them to achieve assigned project goals

Title: SCV (Manual / Automation Testing)

Period: Nov'17 – Sep'18

Client: BBC (UK)

Role: Test Lead and SME (Big Data)

Tools & Technology : AWS – Athena, Glue, Redshift, Hive, EC2, Serenity Framework for Automation, Jenkins, Automation using Java and Serenity Framework

Environment : CentOS Linux

Description: SCV-Single Customer View provides a joined-up view of audience data over time and across devices, platforms & services. SCV data is used for data visualizations, customer segmentations and customized newsletters. It powers tools like Salesforce Marketing Cloud & AV Analytics Dashboard. SCV is a collection of data pipelines that take in data from various sources, perform enrichments, place the data in repositories and extract it.

Responsibilities:

- Prepared **Test Plans and Strategy for Big Data Validation and GDPR Modules**; mentored the team on Big Data Validation Strategies
- Shared domain knowledge on project data needs/capabilities; motivated the team on taking-up Big Data Courses
- Prepared Automation Test Cases using Serenity Framework and Java
- Analyzed data for Segments and Summary Tables on live environment
- Prepared Integrated Test Data approach coming from different source systems
- Performed **Data Validation using Automated Test Cases** for Real-time and Batch Processed Files/Data
- Showcased Big Data Strategies and provided inputs in Quarterly Business Review Meeting to the client

Title: CRM (Manual / Automation Testing)

Period: Dec'16 – Oct'17

Client: L'Oréal

Role: Test Manager

Tools & Technology : Hbase, Cassandra, Hadoop, Hive, HQL, Zeplin, Hue

Environment : CentOS Linux
Description: CRM is based on Hybrid Agile Methodology; it implements customer profile to build a hub for enhancing current marketing efforts & deliver new innovations that will enable a technology stack that stores and processes consumer information, business service function that uses this data to drive all consumer experiences and marketing programs.

Responsibilities:

- Leading a **team of 15 members and guiding them on technology stack** and technical implementations of CRM Program in Big Data
- Reviewing Test cases, Defects Logged as well as Test Bed for end-to-end validations
- Validating the data processed from Batch Flow into HDFS, Hive, Hbase and Cassandra
- Preparing Interim Report for the client; coordinating with team members and assigning them tasks
- Using **JIRA for bug tracking and QA management** and Confluence for the requirement gathering
- Building the Automation Module using Pig Scripts and participating in Daily Scrum Meeting for status updates

Title: ADL **Period: Jan'16 – Nov'16**
Client: Symantec **Role: Test Lead**
Tools & Technology : Kafka, Python, Hadoop , Hive
Environment : CentOS Linux
Description: Automation Testing, Data in the form of telemetry and file submissions is collected via Symantec products, partners and third-party collectors. Data is pre-processed and ingested into Symantec cloud and is stored in a canonical form and store the massaged versions of some data feeds. Hadoop cluster is used for batch processing data in ADL.

Responsibilities:

- Worked on **Automation Testing of Ingestion Module for ADL workflow**; utilized Jira for bug tracking and QA management
- Prepared Automation Smoke Test Script using Python, including changes to automation suite as per new builds received
- Performed end-to-end validation and verified data counts from Kafka Messages loaded to Hive using automation suite
- Integrated the new scripts in automation suite for the request received on table level changes, business transformations
- Took ownership of Automation Module and participated in Daily Scrum Meeting for status updates

Title: Commercial KPI **Period: Jun'15 – Dec'15**
Client: AIG – DSI **Role: Test Lead**
Tools & Technology : Oracle, DB2, Cisco Information Server 7.0
Environment : Windows
Description: ETL Testing, KPI is an initiative that covers several categories of company's Key Performance Indicators (KPI) that are reported to higher management. The data for these KPI's (Business Metrics, Claim Loss, Financial & HR KPIs) resides in various data sources. The objective of the project is to source all this data through the "Cisco Information Server" to visualize applications, such as Qlikview.

Responsibilities:

- Prepared Test Plan and Test Cases as per the design ensuring 100% coverage of the requirements and business process
- Performed **validation of KPIs, control numbers such as Balance, Loss Ratio across all layers in CIS**, ran cache process for data loads and provided these details to business for a smooth sign-off for any build released to production
- Conducted Root Cause Analysis for defects identified, presented defect status reports & observed design inconsistencies, prepared documentation on some of the recurring defects, resolutions and business comments for those defects (Used HP-ALM)
- Proactively participated in Business Meetings; coordinated with different teams, assigned tasks within the team and sent Daily Test Execution Report for smooth project execution

Title: EGP - Enterprise Guest Program (ETL Testing) **Period: Feb'13 – May'15**
Client: Target Corporation India Pvt. Ltd. **Role: Test Lead for UAT Team**
Tools & Technology : Hadoop (Version -2.6.0.2.2.0.0-2041), Hive (Version – 0.14.0.2.2.0.0-2041), Teradata SQL Assistant (Version-14.01.0.02), AQT (Version-8.2.7), QC-11, Version One (Version – 15.07.125), Teradata (Version –ODBC 14.00.00.03), Teradata Administrator (Version -14.0.0.02)
Environment : Java, J2EE, Windows, Linux
Description: EGP enables technology and Master Data Management to build a holistic view of a Guest across all channels. To improvise on campaigns offered, increase personalization and enhance guest's experience based on their purchase history. The project uses Agile Methodology to manage & enhance new data warehouse (EDW) and to migrate existing guest data from ADW to EDW which is further used for developing Semantic Views and develop business reports on top of this.

Responsibilities:

- Provided **Testing Efforts Estimation, documented Test Cases, Defects** and prepared learning documents using HP-ALM & Version 1
- Rendered data consolidation strategies to other team for loading data as per testing standpoint, given EGP is built on Teradata and Hadoop;
pivotal in:
 - **Reviewing STM (Source to Target Mapping) documents** and bringing design specific flaws that doesn't meet requirement specifications to the notice of stakeholders/product owners

- Supporting decision-making for critical aspects of functional/non-functional requirements and loopholes for enhancement/new features in any module
- Participated in **regular Defect Triage Meetings to explain scenarios** on critical issues raised and follow-up with the teams to assure that defects are resolved before the job is in production and no downstream and upstream flows are impacted
- Worked on Regression Suites, monitored production data, performed Integration Testing while closely working with the SIT Team

Title: AADHAAR – UIDAI (ETL Testing)	Period: Aug'11 – Jan'13
Client: Unique Identification Authority of India	Role: Test Specialist
Tools & Technology : Hadoop, Hive, Pentaho Report Designer, SQLyog, Filezilla, Mondrian Schema Workbench	
Environment : Java, J2EE, Windows, Linux	
Description: Aadhaar is world's largest biometric identity system that is used to issue a unique identification number (called Aadhaar or UID) to all Indian residents (approx. 1.2 billion) that is robust enough to eliminate duplicate and fake identities, and can be verified and authenticated in an easy, cost-effective manner. The entire application and framework were built upon Open Source Technologies such as Hadoop, Hive, Pentaho and MySQL	

Responsibilities:

- Validated all **BI (Business Intelligence) Modules for ETL & Reports for Big Data Analysis**; prepared Daily Status update for management (interim & external)
- Prepared Test Strategy, created and executed Test Cases; provided Test Estimation Effort for any scheduled testing
- Coordinated with BAs & provided decisions for critical aspects of testing the functionalities and loopholes for new features
- Checked the **Data Quality & tested thoroughly** for different business scenarios in Hive
- Interacted with client for different functionalities of application; supported Offshore CIDR Team for any issues
- Performed ETL Testing, Functional Testing, Regression Testing, Integration Testing

Title: DBI (Distribution Business Intelligence)	Period: Nov'10 – Jul'11
Client: Target Corporation India Pvt. Ltd.	Role: Sr. Test Er. (Assoc. Data Analyst)
Tools & Technology : DB Artisan version 8.1.2, AQT version 09.07.0002, QC 9.2	
Environment : Java, J2EE, Windows, Linux	
Description: Database Testing (Domain: Datacentric Testing), Distribution Center is specifically dedicated to transport and store merchandise. In DCs, it is possible to track various merchandise lot codes, random weight and days to sell. The project is built to track Purchase, to & fro shipment and sales of merchandise. It entails testing the database, tracking & testing changes made to tables at the backend, validating data transformations from source to target tables for business scenarios. Analyzing and checking the flow of data in the backend including the incremental updates that are being loaded between the various tables.	

Responsibilities:

- Prepared and executed Test Cases for Business Requirements Scenarios; raised defects for any critical / minor scenarios
- **Verified data using SQL Queries for Data Quality** for different business scenarios entailing Functional, Regression & Integration Testing; interacted with client for managing different functionalities of the application

Title: Sales GPS - Banking & Financials	Period: Sep'09 – Oct'10
Client: Morgan Stanley	Role: Project Engineer
Tools & Technology : Wipro's Wipcafe Tool, BOXI, DB2, Sybase, Salesforce, Capo, EDG, Orion 2, Client Tracker, QC	
Environment : Java, J2EE, Windows, Linux	
Description: End-to-End Application Testing (Domain: Datacentric Testing) entailing testing the database & UI functionalities of client's portal using Hybrid Agile Methodology where development & testing of this portal goes parallel	

Responsibilities:

- Validated **end-to-end Sales GPS Application entailing UI Testing, Report Testing**, Regression Testing & Database Testing
- Prepared and executed Test Cases for Business Requirements Scenarios; recorded the critical issues using HP-QC

Title: QC123 to Rational Migration	Period: Nov'08 – Aug'09
Client: Cardinal Healthcare	Role: Project Engineer
Tools & Technology: Clear Quest, Requisite Pro, Rational Manual Tester, Quality Center	Environment: Windows XP
Description: This project includes the migration of test scripts, defects and requirements from the HP Quality Centre 9.0 to IBM's Tool - Rational Manual Tester (RMT)	

Responsibilities:

- Verified migration of QC scripts to RMT tool by importing the scripts from MS Excel to RMT and assigning the various reporting and verification points, then collectively converting the Scripts to RMT projects
- Reviewed the scripts and defects by moving defects from QC to CQTM and then verified the same; similarly moved the requirements also to Reqpro and verified the same as well as established Traceability
- Wrote various queries in CQTM to verify the intermediate processes; associated history in QC was using Clear Case
- Used CQperl to create asset registry and association of scripts in CQ
- Executed design time and runtime scripts using QC tool; prepared Migration Strategy Document

Academic Project: Internship

Title: VLANs with Virtual Machine

Period: Jan'08-Jul'08

Client: Wipro (Internal Project)

Role: Project Engineer

Environment: Java, J2EE, Windows, Linux, Networking

Description: Virtual LAN is a group of end-stations with a common set of requirements, independent of physical location. VLAN's have same attributes as a physical LAN but allows to group end-stations even if they are not located physically on the same LAN segment. Creation of VLAN's allows users located in different areas or connected to separate ports to belong to a single VLAN group.

Responsibilities:

- Performed **analysis & development of VLANs**; helped the team in understanding the application
- Participated in Weekly Status Meetings with the Leads; prepared Daily Status Reports