



[Ramanan Bhavanisankar](#)



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M.S. in Software Engineering, BITS Pilani



Certificate in Data Science Foundation, Accredian

- 14.5 years of total experience in IT industry (QE, QA, SDET/ Automation)
- 10+ years of ETL/ DWH experience
- 6+ years as Python SDET developing E2E Automation Frameworks
- 6+ years in Informatica MDM Testing (Master Data Management)
- 5 years in API Testing
- Official Python trainer in my current organization
- A Data Science and Machine Learning enthusiast (Presented sessions on Data Science, ML & AI Foundation)

Skill Set Summary

Primary



Secondary



Employment History

Organization	Parent Organization (if any)	Year	Designation
FitchRatings	Nous Infosystems	2022 – Present	Sr. Tech Lead – SDET/QE, Python Framework dev. (DWH, ETL, API, Snapshot Process)
KPMG	Marlabs Inc.	2021	Tech Lead, Python SDET/QE – ETL, MDM, API
McAfee	Zillion Technologies	2020	SDET - ETL, MDM, API, Sales Cloud - Python Automation
cognizant	N/A	2018-2020	Manager (QE/QA - MDM, DWH, ETL, BI, API, Python Automation)
wipro	N/A	2009-2018	Senior Project Engineer

Domains

- Information/Cyber Security
- Insurance (Motor & Home)
- Banking
- Energy
- Healthcare/Life Science
- Marketing

Roles

- Sr. Technical Lead - SDET, Python Framework Development, QE, ETL, DWH, API
- Manager – QE/QA – DWH, ETL, MDM, API, BI, Python Automation
- SDET
- QE/QA
- Data Analyst

Experience Summary

- 14 years of total experience in IT industry
- Onsite experience - 1 year [**UK – Capital One**]
- Have been into customer-facing role in all the projects
- Abundant knowledge and experience in **Python programming** and implementing **E2E Frameworks**
- As a single SDET resource have implemented major E2E Automation Frameworks using Python (both **Functional and OOPs paradigm**) for API and ETL/DWH Testing
- Expertise in variety of testing such as
 - **ETL (Advanced SQL Scripting) – SQL and NoSQL**
 - **Database, Data Warehouse**
 - **Informatica MDM**
 - **Amazon S3, Snowflake**
 - **API Testing**
 - **Report Testing (BI)**
- Built the below tools and frameworks using **Python across** various projects
 - **E2E Framework** for validating **10 data feeds** where the **source being API** and target being **Oracle and Mongo cloud** involving various Data Transformations
 - **E2E Framework** for **Snapshot process** for multiple feeds where the data flows through **12 layers involving various metric calculations**
 - **E2E Framework** for **ETL/data processing** from **Amazon S3 landing** through **Snowflake data layers**.
 - **E2E Framework** to validate data reconciliation, transformation and completeness for **AWS S3 and Snowflake**
 - **Framework** for Data flow testing from **SAP – AWS RDS (SQL Server) – MDM – AWS RDS (SQL Server) – Sales Cloud**
 - **XML generator for MDM SIF API Testing** that converts excel data into Request XML, sends request and then generates Response XMLS ~300 XMLs in ~ 2 mins
 - CSV Validation tool to compare CSV files
 - **API Automation** (Generating Data Frames via Database, XML and Json files for Test validation)
- Have also worked as a single QA person for 4 DWH projects and 1 Informatica MDM project
- Have received consistent appreciations from Clients, Architects and Management for diligent work in all the projects

Project Summary

Current Project – Fitch Ratings

Project Name	RISK Data Warehouse
Role	Senior Tech Lead – SDET & QE
Domain	Information Security
Technologies	API+ETL Testing – Hybrid, Oracle cloud, Mongo cloud, Advanced SQL scripting, Agile Methodology, Python Automation
Duration	2.5 years

Project Description

RISK Data Warehouse project primarily focuses on building a Datawarehouse comprising Risk and Vulnerability Data from various source feeds thereby building a Metrics and Reporting Dashboard for Risk Analysis.

The project has 2 phases. ETL phase for ingesting data feeds on daily basis and a Snapshot process. The source is API for most of the feeds and txt files for fewer feeds.

Responsibilities

- Driving QE and QA Activities for the project
- Implemented **2 Major E2E Frameworks for API+ETL Testing and Snapshot process involving 12 data layers**
- **CICD Integration** from QE standpoint
- Have received SNAP award and **consistent appreciations from Client Directors, BA, Product Owners, Architect** for diligent work E2E automation process and uncovering many intriguing defects
- Presented sessions on various Automation Frameworks, Data Science, ML and AI Foundation.

KPMG Project

Project Name	FOT (Front Office Transformation)
Role	Technical Lead – SDET & QE
Domain	Finance
Technologies	MDM, API Testing, Advanced SQL scripting, Agile Methodology, Python Automation
Applications	Informatica MDM 10.4, AWS RDS SQL Server, Oracle DB, MuleSoft ,Sales Cloud, Python
Duration	8 months

Project Description

FOT (Front Office Transformation) project focuses on Mastering data from different sources – SAP, Sales cloud, MDM feeds and sending and integrating the data with downstream systems using MuleSoft and AWS RDS as middleware

Responsibilities

- Involved in building Python Framework development and Test Automation
- MDM Testing, API Testing, DWH Testing
- Driving/leading the QE activities

- Having working sessions and brainstorming session with Product Owner, Development Lead and Business Analyst
- Giving MDM Testing training to team members
- Have received applications from Client Management for Technical knowledge and analyzing skills

McAfee Project

Project Name	Lead Simplification Process
Role	ETL & MDM - QA
Domain	Marketing
Technologies	MDM, Middleware – Oracle Fusion, API Testing, Advanced SQL scripting, Agile Methodology, Python Automation
Applications	Informatica MDM 10.4, Fusion Middleware, Salesforce, Pardot, Oracle DB, Python
Duration	4 months

Project Description

LSP project focuses on Mastering data from different sources – SAP, Sales cloud, MDM feeds and enriched data from other third-party systems and integrating the data with SAP and Sales cloud using Oracle fusion middleware.

Responsibilities

- Involved in building Python Framework development and Test Automation
- MDM Testing, ETL Testing
- API Testing
- Having working sessions and brainstorming session with Product Owner, Development Lead and Business Analyst
- Have received applications from Client Management for Technical knowledge and analyzing skills

Medtronic Project

Project Name	Customer Insight & Patient Master Data Management [2 MDM Projects]
Role	QE Lead + Manager
Domain	Healthcare/Life Science
Technologies	MDM, Advanced SQL scripting, Agile Methodology, Python Automation
Duration	24 months

Project Description

The scope of the project is to draw information from various sources to provide and leverage a single trusted view of Medtronic's customers and Patient data thereby providing a framework to achieve greater consistency on the management of Medtronic's critical data.

Responsibilities

- Performing Testing (SIT) Activities and managing the Testing activities (**Technical+ Managerial role**)
- Writing **Complex/Advanced SQL scripts** and providing **technical guidance to the team on both ETL and MDM Testing**
- Conducting Technical Team meetings, brainstorming sessions, devising Test strategies for ETL and MDM testing, preparing Test Plan, Daily and Weekly Status Reports and Test Completion Reports
- E2E Testing which has combined ETL Testing and MDM Testing (incl. **Standardization, Match and Merge and Workflows**) which comprised Data flow for about **8 layers and 15+ Source systems**
- **Conducting Technical Team meetings with Development Team, Business and Tech Leads**
- Uncovered good number of Major Defects in MDM and ETL which has been highly appreciated by Architect and Business
- Have received **consistent appreciations from Clients** for the quality of work

Philips Project

Project Name	BPDH and FORDH [2 MDM Projects]
Role	Senior Project Engineer
Domain	Healthcare/Life Science
Technologies	MDM, Advanced SQL scripting, Agile Methodology, SAP R3
Duration	24 months

Project Description

Philips is a Dutch technology company with the primary divisions focused in the areas of electronics, healthcare and lighting.

Project 1) **BPDH MDM – SAP Integration**

- **Business Partner Data Hub** (Informatica MDM)- SAP Integration project focuses on sending Customer/Vendor A level data from BPDH MDM to SAP thereby to automate data creation in SAP and getting some data back from SAP
- There were two process types
 - Synchronous/Real time
 - Asynchronous/Batch Mode
- Integration from BPDH MDM – SAP is done via Informatica DIH where the Subscription to SAP is done using IDocs
- The integration is two-way. Data is sent back from SAP to MDM as well
- The project followed **Agile Methodology** and **Rally** is the Agile tool

Project 2) FORDH

- **Finance Organization Reference Data Hub** involves bringing in Real time data from GDM (Global Data Management) Server into the Finance MDM (DB2) thereby to continue data maintenance involving the MDM activities besides generating SAP Load ready files

**Received Outstanding Contribution award*

Responsibilities

- Complete ownership of Testing activities
- Integration Testing of various Interfaces **Informatica MDM – Informatica Data Integration Hub – SAP and Informatica Data Director**
- Co-ordination with Client Scrum Master, Test Manager, Architects, BA and Product Owner on regular basis

- Flagging and bridging Requirement gaps by discussing with Product Owners
- Defect RCA
- Writing complex SQL queries in both Oracle and DB2
- SAP IDoc, Table level and Screen level testing (Vendor and Customer Master)
- Weekly Status Reports
- Giving Testing Demo to Clients
- Conducting Technical Meetings with SMES and across feature teams
- Received appreciations from various levels of Management for being pro-active and dedicated

Capital One Project

Project Name	SPOT (In-house alerts)
Role	Senior Project Engineer
Domain	Banking (Credit Cards)
Technologies	Teradata, TSYS Mainframe application, Advanced SQL scripting, Agile Methodology, Control M, Abinitio, Unix
Duration	24 months

Project Description

Capital One Financial Corporation is an American bank holding company specializing in credit cards, home loans, auto loans, banking and savings products. The Project handles the Credit Card Life Cycle comprising of Acquisition to Collections Stages. My scope of testing was around various in-house alerts implementation, Dialer Data flow, Oracle DB Transactions, MI Data to and from Teradata used by downstream Mainframe Applications.

Responsibilities

- Worked from Client Location [UK] following **Agile Methodology**
- Co-ordination with Client Scrum Master, Test Manager, Architects, BA and Product Owner
- ETL Testing involving **Oracle 11g, Teradata, Ab Initio, Unix, Control M EM, Control M Desktop**
- **Mainframe Application Testing** – TS2/TSYS [Total System Services]
- Test data extraction using complex SQL queries
- Testing of a crucial **strategy management tool** which replaced 14-year-old tool owned by Experian (A milestone) which was highly appreciated by Client Higher level management
- **Dialer Data flow** testing
- **Control M** Validation {50+ Jobs} for every Release [both SIT and production]
- Received **Outstanding Contribution** Award

RSA UK Project

Project Name	Motor D4P and Home MI (2 Projects)
Role	Senior Project Engineer
Domain	Insurance (Motor & Home)
Technologies	Oracle Data Integrator, MySQL, Oracle Exadata, Advanced SQL scripting, Agile Methodology
Duration	24 months

Project Description

The Project scope was to build a Data Warehouse for Motor Insurance and Home Insurance

Responsibilities

- Involved in requirement analysis, reviewing HLD and TDD documents along with BA
- Done a lot of **detailed analysis** even on source systems and suggested **Design level changes to architect** and Development Team which has been implemented and highly appreciated
- Testing the data flow and complex hierarchy from 10 different source systems into the Data Warehouse
- Test Data mocking {file system}
- Involved in creation, review of **Test Scenarios** and **Test Cases**
- Involved in System Integration Testing
- Test scheduling and assignment
- Performed **ETL Testing** using **Oracle Data Integrator, Oracle SQL Developer, SQL Server, Unix [Putty]**
- Test case designing, Requirement mapping, Defect logging and tracking using HP Quality Center
- Generation of Test execution status and Defect status reports using HP QC
- Daily interaction with Onsite team on QA activities and sending Daily/Weekly Status reports

Shell Project

Project Name	Shell eServe
Role	Quality Analyst
Domain	Energy
Technologies	Application Testing, SAP R3, Oracle DB
Duration	18 months

Project Description

The Project scope was to build a web application with SAP R/3 integration for Shell US

Responsibilities

- Identification of scenarios and preparation of Test cases
- Have been part of 7 Major Releases of the project
- One of the **critical resources** and have worked on the various modules of the project providing **major contribution** to the **core module** of the project
- Involved in Status reporting and defect review meeting with Team leads and Development Team on a regular basis.
- Hyper Care Support
- Co-ordination with Onsite team on regular basis
- Creating and Configuring required Test Data using **SAP R/3**
- Highly appreciated by Onsite coordinators and BA for excellent test coverage and uncovering interesting defects
- Involved in System Testing, Integration Testing, Regression Testing, Dry Run Tests and Production Testing

Microsoft OIPG Project

Project Name	OIPG – Online International Publishing Group
Role	Test Engineer
Duration	24 months

Project Description

The Project scope was to build and enhance Microsoft Office 2010 Products along with the SharePoint, MOSS and WAC Servers.

Responsibilities

- Have been part of important Testing phase (RTM) of the project
- Worked on Tools such as Microsoft Product Studio, Fiddler, Zorin, Asset Tester, Asset Render.
- Content, functionality and UI of the client viewer and few other areas of Microsoft Office 2010 products are the key areas of testing.
- Testing is done on various Operating Systems (both 64 and 86 architecture) such as Windows XP, Windows 2003 server, Windows 2008 Server SP2, Windows 2008 Server R2, Windows 7 client, Windows Vista
- Creation and installations of VHDs
- Applications under testing includes MS Office 2010 Products and also Microsoft Server applications such as SharePoint Server, WAC Server, WSS Server, Search Server and Project Server
- Involved in identification of scenarios, Test case preparation
- Test execution, defect reporting and tracking is done using Microsoft Product Studio



Awards

- **“BEST CAMPUS RECRUIT”** award (Microsoft Project 2009)
- 2 **“Feather in my Cap”** awards for excellent contribution towards the critical module of the project – (Shell UK)
- **“Outstanding Contribution”** award (Capital One UK 2016)
- **“Outstanding Contribution”** award (Philips – MDM Project 2018)
- **Appreciation** from Global Test Director and Program Managers for Test Management, Strategy and Execution (Medtronic– MDM Project 2019)
- **“SNAP AWARD”** (Nous, Fitch Ratings – Python Automation 2022)



Educational Qualification

Degree	Discipline	College/University	Month & Year of Passing	% or CGPA scored
M.S	Software Engineering	BITS, Pilani	Nov 2013	6.34 CGPA
BCA	Computer Applications	Bishop Heber College	Apr 2009	9.18 CGPA
HSC	Computer Science	VRMHSS	Mar 2006	75.8%
SSLC	NA	VRMHSS	Apr 2004	88%

CERTIFICATE OF COMPLETION

This is to certify that

RAMANAN BHAVANISANKAR

has successfully completed

CERTIFICATE IN DATA SCIENCE FOUNDATION

BATCH : January, 2021

DATE OF ISSUE : 12/05/2021



MANVENDER SINGH
Chief Data Science Mentor

