

Girish Gopalakrishnan Nair

Senior Technical Lead



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🇮🇳 Indian

Education

- **Masters in Computer Applications**
Jan 2012 - Dec 2014
- **Bachelors in Computer Applications**
Jun 2009 - May 2011
- **Seinor Secondary**
May 2007 - Apr 2009

Skills

Python

Backend Development

Microsoft Azure

Frontend Development

Rest API Development

PostgreSQL

Github

Jenkins

Nginx, Gunicorn

Docker

Languages

Summary

An innovative, self-motivated, energetic and dedicated engineer with a passion for developing reliable, user-friendly applications based on business requirements. Over 6 years of python development experience using multiple tools and web frameworks, databases, and system integration and a total of 12 years of experience in the IT industry.

Work Experience

Senior Technical Lead, HCL Technologies B.V., Netherlands

March 2022 - Present

Environment: Docker, Azure DevOps, Linux, Python, YAML, PostgreSQL, ING Ferdi, Azure Data Factory

ING Finance and Risk Data Administration (FRIDA) is a project which is provided as a solution for tackling current ING problems of having multiple databases and data marts which are being used by many internal applications. ING has another platform called Ferdi. This platform is used to build and deploy python ETL applications. Thus, we use this platform to get and retrieve data from FRIDA. It is used for many other internal projects as well. For FRIDA, a distributed database version called Citus for PostgreSQL is supported by Azure and the FRIDA platform team manages it.

Responsibilities:

- Create Ferdi based python ETL apps
- Setup and create ETL pipelines using Azure Data factory
- Proposed multiple solutions including FRIDA Dashboard(Web UI) and in uenced architectural decisions
- Creation of multiple inbound and outbound ETL apps to bring data into FRIDA.
- Perform BDD tests for the business requirements of the ETL tool.

End-to-end data mart solution setup using Azure data factory for Credit Risk Loan Tape project.

Created end-to-end Data quality framework for CRLT.

Personal project using Bazel build

English

Hindi

Malayalam

Tamil

Senior Consultant, Sogeti Netherlands B.V., Netherlands

June 2019 - February 2022

Project: Teststreet

Environment: *Linux, Python, Flask, Apache, PostgreSQL, Atlassian Bamboo CLI, JSON, Javascript, shell scripting*

The project is related to developing a web-based solution called Teststreet using a flask for scheduling and running all types of system/functional level tests on an ASML Yieldstar machine or its software only as well.

Responsibilities:

- Provided the solution to make use of existing CICD pipeline tool called Bamboo to manage the agents and run tests on the back-end of the teststreet.
- Updated the existing files to make them generic enough for reducing duplicates.
- Involved in framework updates
- Teststreet uses pycpg2 for communicating with databases.
- Updating PostgreSQL column structure for different tables.

Project: Customer Profile Model Extraction

Environment: *Linux, Python, Django, Nginx, Gunicorn, Supervisor, sqlite3, Javascript, shell scripting, rest API, pandas data frames*

The project is related to developing Django-based web applications to get customer data, process it and provide it to the internal teams in ASML(ETL) for finding solutions related to customer issues by generating alpha test cases. There are two parts of applications in the CPME project. CPMEfab – installed at customer location to perform ETL and get data to Veldhoven and CPMEmgm – for internal maintenance of the data we get from CPMEfab. This acts as an interface to the internal customers ASML.

Responsibilities:

- Develop, improve and maintain the customer side application(CPMEfab).
- Updating the GUI, improving functionalities and tests.
- Involved in providing full meaning data to the internal clients using the Django rest framework's API calls(CPMEmgm).
- Store the data coming from customers in a database and create specific models for providing the intended data to different internal teams.

Senior Consultant, Capgemini India Ltd., India and Netherlands

April 2017 - May 2019

Environments: *Squish GUI Testing Tool, Python Scripting, Linux, Test bench setup, Jenkins*

The project is related to automation of ASML applications used for testing on the ADT's. These applications are based on Linux flavors such as CentOS and OpenSUSE. The goal of automation is to reduce the time taken to execute the regression test cases, which currently takes around 2 weeks, by using GUI Test automation tool called Squish with Python.

Responsibilities:

- Introduced Squish GUI tool in ASML for testing their GUI applications based on different Linux flavors
- Coaching teammates on Squish GUI tool and Python scripting
- Setting up test infra and test framework for this project
- Scheduling tests with Jenkins

Senior Automation Engineer, Harman Connected Services, India

March 2016 - April 2017

Project: Ford LCIS

Environment: Test Automation using CSharp 2013, Test Environment Automation, Manual Testing, Visual Test, Embedded testing

Ford LCIS is a Low Cost Infotainment System for Asia car market. It's been developed based Orinoco (Linux flavor) for embedded devices. The task at hand was to automate most of the IOP test cases using Visual Studio and C#. Harman provided the basic Test automation Framework (TAF) for this project to build a completely new and adaptable automation framework which can be used for automation testing of any other infotainment IOP systems.

Girish was involved in developing generic API's for the TAF framework which reduced the efforts for other testers. He used Appium and ADB commands to communicate with the android devices under test. The actions which were to be performed on the target were done using Touch binaries which were provided by the development team. Girish was involved in designing a modular data-based framework. He also provided few framework

design concepts like the outer structure for all the modules and functions which were to be kept common across different products. The Test Automation Framework from Harman used DBUS, LAN and serial programming to communicate with the target (Ford LCIS etc.). He has also contributed towards the test script development and execution of test scripts.

Project: GM CSM

Environment: Test Automation using CSharp 2013, Test Environment Automation, Manual Testing, Visual Test, Embedded testing

GM CSM is an Infotainment system for different types of cars lines which is based on Android platform. Scope of this project was to perform Sanity and Regression testing and to provide a complete automation framework for the product. The automation framework is developed using the MS Visual Studio 2013 with C# as the programming language. HMI verification, frequent product build releases, frequent RTC's and changes in test setups are the major challenges faced in this project.

Girish was mainly involved in solving problems faced during automation of modules like VR, Media and Phone. He provided a framework design for automating VR tests using windows speech synthesizer API. For media test cases he provided solution for using a USB switch where a USB port can be switched between your system and the target. Finally, for the phone related testing he gave a solution with Appium in order to control the incoming/outgoing calls/messages and more. He has also contributed towards the creation and execution of test scripts. The actions which were to be performed on the target were done using Appium as the interface to the target, as GM CSM is based on Android platform.

Test Engineer, Wipro Technologies Ltd., India

August 2011 - February 2016

Ford Motor Company, USA has developed the latest version of Ford SYNC Gen3 which is a factory-installed, integrated in-vehicle communications and entertainment system that allows users to make hands-free telephone calls, control music and perform other functions with the use of voice commands. Scope of this project was to perform Functional, Regression and System testing and to provide a complete automation framework for the product.

The automation framework is developed using the Frog logic Squish with Python as the programming language. The initial task of creating test cases from the requirements for modules like Diagnostics and VR were handled by Girish. He learned the art of automation with Squish and python himself and proved to be useful for the project which was becoming critical with time.

With lots of ideas and interest, Girish joined the VR automation team, where he provided a test data driven framework for automation. Seeing his dedication and interest for automation he was then provided an individual task for taking up one of the difficult modules called VMCU where he created his own framework for it and later merged with the common automation framework for diagnostic testing. He supported the implementation of USB switching mechanism using Arduino Board with Python serial programming. He was involved in generating CAN messages to be sent to the target(Ford Sync Gen3). He was involved in Test case preparation, planning and control, test case execution and reporting, finding defects and failures of the product and reporting them with required logs and other information's. He took the responsibility of manual and automation testing of different modules within Diagnostics namely four(VMCU, Bezel Diagnostics, Diagnostics and Power Management). He took complete ownership of VMCU and Diagnostics testing.

Testautomatisering with Squish GUI Testing Tool and Python Scripting, Systeemtesten, Testen, Testsystemen, Test Environment Management, Black box testtechnieken, Regressietest, Visual Test, Embedded testing.

Kahuna-Ink project involves the manual testing of printer drivers and automation testing of printer drivers with different applications using the tools like Perl, Tomcat, uispy, and power shell. Frequent build changes, changes in requirement, changes in verification data are the major challenges faced in this project. Girish was involved in the Manual test case development and execution. His major activities included on time deliveries- reports, status update, and effort logins etc. defect reporting using Bugzilla, ensured there are zero test escapes and defect slippages from the tests executed, and there were no instances of rejection/slippage of delivered work items. Rework was attributable to only customer requested changes and project requirement changes.

Systeemtesten, Testen, Regressietest, Embedded testing.

ICM: Cisco Intelligent Contact Management (ICM) provides network-based contact routing capabilities. It builds an enterprise wide customer contact platform by integrating multiple carrier networks and vendor switches, automatic call distribution system (ACD), interactive voice response (IVR), Web-servers, and desktop applications.

Girish had proposed innovative solutions for manual testing to increase the scope of the application testing. He was involved in upgrading the Test Beds with latest builds and performing Regression and Functional testing of the product. His major activities included raising defects in Bugzilla and confirming the issues, interaction with Clients on a daily basis for solving issues related to the product, testing of features like: Cisco Bundled Applications: Cisco Any Connect, Secure Mobility Client (VPN), Cisco AppHQ Marketplace, Cisco Jabber IM, and Automation of test cases using Perl.

The Cisco CIUS is a business-oriented, android-based tablet IP Phone from Cisco Systems. It is an android powered mobile collaboration device that allows you to work and communicate from anywhere. The CIUS acts as an IP-Phone or RT but has many more capabilities than them. It has 3G & 4G video calling, WebEx application, Cisco Jabber application, AppHq application and many more features. Routing mechanisms of calls, frequent request for changes in the ICM product, testing of android platform and its integration with the tablet were the major challenges faced in this project.

Testen, Regressietest, Embedded testing, Test Environment Management, Black box testtechnieken, Visual Test,