

Alesia Perera

QA/Developer

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PROFILE

Creative and highly organised QA/Developer professional with a unique ability to make sense of complex systems and platforms. With over 15 years of experience in a wide range of industries such as networking and communication, finance, transport and logistics. Determined with deep focusing and analytical skills. Able to handle distractions well, take on challenges and balance routing tasks with variety.

AREAS OF EXPERTISE

Establishing and supporting automation framework on API and UI levels using python or typescript.

Building automation pipelines using Jenkins or Azure DevOps tools.

Constructing python scripts to support automation on different levels of the project.

Extensive experience and passion in working with data on different levels; including data cleaning and presentation, data migration and verification.

Providing any type of testing including unit testing, system and integration, performance and load testing.

Extensive knowledge of SDLC; SCUM and SAFe lifecycles.

Excellent team player, fast and deep learner who with time becomes a knowledge expert in the whole system.

EDUCATION

Bachelor's Degree in Applied Mathematics and Information Technologies

Sep 2000 - Jul 2005

SKILLS

Python including lib Django, APIs with Flask, requests, numpy, pandas, pymongo, pyodbc etc.

SQL (MS SQL Server), MongoDB (MQL, Atlas web portal, Mongo Shell), Elastic Search (using MVEL - Elastic expression language), MS PowerBI, Databricks (Sparks or SQL)

C#, Playwright with TypeScript

Jenkins, Azure DevOps, JMeter (Groovy), Git GitHub, GitLab (scm), SVN, Yaml files for CICD, Docker runs

AWARDS

PCAP - Certified Associate Python Programmer (PCAP-31-03; Oct-2024)

Lenkins Level 1: Pipeline Essentials

Microsoft Certified: Azure Fundamentals

PROJECTS AND CAREER

IBM, QA/Developer

July 2022 - PRESENT

Position Overview:

Been part of a growing technical team, working on improving the quality of a complex software product which focuses on ESG reporting. Working in a scrum environment, I have been assigned to different projects working with different areas of the whole software and different teams. Assignments will include (but not limited to) validations of UI, APIs, data load and data collection services, data validating using SQL, reporting, PowerBI reports and services and validation of supporting windows services.

Key Achievements:

- As part of a QA team, building from scratch and supporting a large UI automation framework using Playwright tool and typescript language.
- Building automation framework for APIs and data testing using python, pytest and SQL Alchemy. Added and supported Jenkins pipelines to run tests on schedules.
- Facilitating migration between JIRA servers by creating scripts for data migration using python and JIRA APIs libraries, as well as running whole data migration.
- Building up PowerBI datasets (using data from SQL server) and visuals/reports for demonstration and testing purposes using PowerBI desktop and PowerBI cloud services.
- Taking initiative in self-development and completing IBM internal practical classes on advanced SQL usage, data analysing and visualisation using python libraries.

Aristocrat Technology, Senior Automation Test Engineer

Oct 2021 - Jul 2022

Position Overview:

Working closely with the test automation team, the main task is to support the new automation framework by developing automation scripts with python as well as bringing up automation practices and processes into the manual test environment.

Key Achievements:

- Build up full knowledge of the existing automation framework and distribute it to the internal test teams.
- Contributing into the automation framework by developing and supporting automation scripts using pytest and internal libraries.
- Built up and supported test automation pipeline using Jenkins tool.
- Establishing automation processes on the project; bringing up automation knowledge into the manual test team.
- Setting up and supporting hardware for test runs (such as gaming machines, SAS protocol, Bingo simulator etc.)

Senior Automation Test Engineer, The Yield Technology

Jul 2021 - Oct 2021

Position Overview:

The Yield is an Australian agricultural technology company, which is combining engineering, data science and technologies to help to increase yield, reduce waste, mitigate risk and cost associated with bad weather.

Working closely with the development team, my main task was to build up a new automation framework for back-end APIs and help data engineers build robust, reliable and high quality data models.

APIs are bringing up data generated by data models and stored in MongoDB sometimes in real-time manners. Data is consumed by mobile technologies which tends to bring full picture and graphs to clients.

Key Achievements:

- Build up a new test framework to cover up APIs back-end testing using python and pytest.
- Working closely with DevOps specialists to set up build pipelines to trigger automation tests on demand or on checking.
- Working with data engineers to help to bring up scripts for data models validation using pandas and numpy.

NTT Australia Pty Ltd, Software QA Lead/Manager

Jan 2018 - Jul 2021

Position Overview:

Working as the only QA specialist on the platform, overseeing QA processes and standards and providing guidance and directions to improve quality to Dev and architects across multiple teams.

Collect metrics to demonstrate quality maturity of the project. Establish and support QA environment and tools.

Improve the continuous integration process by adding automation scripts and establishing pipelines for automation builds.

Provide deep data analysing, troubleshooting and root cause analysing to outside teams using our platform.

Key Achievements:

- Establishing and demoing for the whole group Azure DevOps tool to support testing processes and automation. Moved Automation test pipelines into Azure DevOps from tfs. Migrated all manual test cases under the Test Plan section. Supported other teams to adopt new tools for their test needs.
- Setting up a test framework for Integration tests using Python for services running on top of RabbitMQ message bus. Full set up of test environment and data. Established automated pipeline to run scripts on schedule.
- Set up Automation framework for API tests using SpecFlow (Cucumber) with C# based. Then migrated automation test cases from JMeter tool into C# which helped to speed up the continued integration process.
- Created and supported scripts for performance/load test for projects like: Elastic Search DB using JSON based queries; MongoDB DB performance measurement as well as services on top of it. RabbitMQ queues services processing capacity.
- Gained practical knowledge with Data lakes and other Azure cloud products, as well as Big Data testing using Databricks with Sparks and SQL

Visual Risk, Senior Test Analyst

Sep 2015 - Jan 2018