

About Me



Hello, I'm Max, a Senior Test Automation Engineer and QA Lead with extensive experience in designing and implementing robust automation frameworks and quality assurance processes. My expertise spans across various domains, including Generative AI, API testing, performance testing, and data analysis.

As a Certified Test Automation Engineer, I've successfully developed and maintained a Keyword-Based Test Automation Framework using Robotframework, catering to over 50 diverse Systems Under Test across multiple platforms and technologies. My experience includes leading and managing multiple teams, driving innovation in test automation, and implementing efficient pipelines for continuous integration and delivery.

I specialize in creating custom solutions to complex problems, such as developing data pipelines for build information analysis, automating quality checks, and transforming performance testing methodologies. My skills extend to utilizing cloud technologies like AWS for data manipulation and visualization, as well as implementing monitoring processes for test scripts and product defects.

In my role as QA Lead, I focus on enhancing team capabilities through guidance, training, and coaching. I'm committed to establishing and maintaining best practices, improving test reusability, and driving efficiency across projects. My approach combines technical expertise with strong leadership skills to ensure high-quality software releases that meet and exceed stakeholder expectations.

I'm passionate about leveraging cutting-edge technologies and methodologies to continuously improve quality assurance processes and deliver exceptional results in fast-paced, dynamic environments.

Projects

Cucumber Jira Xray collaborator

<https://github.com/maxleow/cujrax>



From cucumber.json to everything in Xray.

This project automates the process of creating test plans, executions, and tests in Xray by translating data from a cucumber.json result file. The tool imports the data and automatically creates the necessary test assets in Xray, streamlining the process and reducing the risk of errors. Additionally, the tool exports the results back into the respective executions, making it easier to track and manage testing progress. Overall, this project improves the efficiency and accuracy of the testing process by automating the creation and management of test assets in Xray.

Timebase release for Jira

<https://github.com/maxleow/timebasedrelese>



Track your daily environment release effortlessly.

A tool for automating the versioning process of software releases. It has several key features that streamline the versioning process and ensure that releases are properly labeled and tracked.

The first feature is the auto-generation of semantic-environment_aware-timebased version numbers. This means that the tool will automatically create a version number that includes information about the release, such as the environment it's intended for (in this case SIT), and the date on which it was generated (in this case 2023.03.17). This helps to ensure that each version is uniquely identified and can be easily tracked.

The second feature is the ability to update the "fixVersion" field in Jira issues to reflect the daily generated version. This helps to keep track of which issues have been addressed in which versions, making it easier to track progress and identify any issues that may have been introduced in a particular release.

Finally, the tool includes a mechanism for automatically getting the latest version when it enters into a new day window. This ensures that the version numbers stay current and are always accurately reflecting the most recent changes and updates to the software.

Overall, this project is designed to simplify the versioning process and ensure that releases are properly labeled and tracked, making it easier to manage software development and releases over time.

Xray for Postman

<https://github.com/maxleow/xray>



Xray result importer script

This project is a library for importing the results of Postman executions into Jira Xray. This allows for easier tracking and management of test results, ensuring that all relevant data is captured and organized in a central location.

The library works by integrating with both Postman and Jira Xray, allowing for seamless transfer of data between the two systems. After each Postman execution, the library will automatically import the results into Jira Xray, creating a new test execution and associating it with the appropriate test case.

This process ensures that all test results are accurately tracked and stored, making it easier to analyze and report on test results over time. It also eliminates the need for manual data entry, reducing the risk of errors and streamlining the testing process.

Overall, this project is designed to improve the efficiency and effectiveness of the testing process by automating the import of test results from Postman into Jira Xray. By ensuring that all test results are accurately tracked and managed, this library helps to ensure the quality, reliability and reusability of multiple Postman Collections, leading to increased of collaboration and maintainability.

Duck Jenkins

https://github.com/maxleow/duck_jenkins



Data extractor for Jenkins

To extract build data from Jenkins pipelines with greater freedom and ease, and to enable more efficient querying of this data.

Testrail data

github.com/maxleow/testrail.data



A handy library for retrieving big results

This library is trying to create a convenient way of pulling the results and case info from Testrails(A Test management system) for analytic purposes. With the help of [Pandas](#), we are gaining flexibility and speed in exploring the data.

Helical railgun

github.com/achekis-simoury/helicalrailgun



Let every unit-test count

I started this project during a hackathon event. We are using [Testrail](#) as our [Test Oracle](#). To publish the results, it often troublesome due to some dependencies behind the pipelines, which can be simplify through this solution.

Experience

celcomdigi bhd

Test Automation Lead/ Tech Lead

(Generative AI)

September 2022 - Present

<https://corporate.celcomdigi.com/>

2023 December - Present

- Lead and manage three teams, including two dedicated to Test Automation across multiple projects
- Establish and maintain best practices, guidelines, and standards to enhance test reusability across teams
- Extended Test Automation adoption from development environments to SIT, Staging, and Production
- Spearhead Generative AI initiatives, including the creation and maintenance of assessment assistants
- Monitor and analyze improvement metrics for AI-driven solutions
- Drive innovation and efficiency in both test automation and AI applications

2023 June - 2023 December

- Certified Tester Test Automation Engineer (TAE-MY0003-23)
- Designed and implemented Keyword-Based Test Automation Framework using Robotframework
- Developed framework to support 50+ Systems Under Test (SUT) across Web UI, REST API, SOAP and Mobile Apps
- Coached team members to accelerate learning and adoption of automation practices
- Provided hands-on guidance across diverse projects to establish best practices
- Set up test pipelines using Terraform for code build processes

2022 December - June 2023

- Implemented a data pipeline to collect and analyze build information from Tekton pipelines
- Utilized AWS Athena, crawler, and QuickSight to create an informative QA dashboard for real-time project visibility
- Led the transformation of performance testing from JMeter to Locust, enhancing flexibility and scalability

2022 November - December

- Automated quality checks for code changes in AWS CodeCommit, including Jira key and author email validation
- Developed automation bot for Jira comments to report deployment status across environments
- Implemented processes to ensure code changes meet required standards and guidelines
- Enhanced project visibility and communication, facilitating efficient decision-making

2022 September - 2022 November

- Designed and automated API user journey flows using Postman, Tekton, and Xray
- Resolved test data consistency issues and implemented monitoring for test scripts and product defects
- Provided guidance, training, and coaching to improve team skills and enhance processes
- Significantly improved project quality, efficiency, and overall team capabilities

Experian

Senior QA Engineer

November 2013 - September 2022

[experian.com](https://www.experian.com)

2020 - Present (QA)

Consolidating test results and visualized into interactive charts, grouping by products, groups, teams, priorities in a time series manner. Tools and libraries I was using [AWS ECR managed](#) for api hosting, [Python3](#) to aggregate results and as a REST server, [Grafana](#) to Data visualization plugin, [Minibucket](#) as a storage and [Terraform](#) for deployment.

2018 - 2022 (QA)

Design, implement and maintain product provisioning scripts using [Ansible](#), [Packer](#) and Terraform for the entire test automation pipelines. Promoting component testing as a left shift strategy.

2016 - 2018 (QA)

Leading [Cucumber](#) and [Selenium](#) projects development, such as coaching, library development, Writing [CHEF](#) recipe, preparing process and best practices for all the scrum teams.

2015 - 2016 (QA)

Supervising automation test out-sourcing written in [QFTest](#), review, verify and facilitate the vendor to contribute seamlessly.

2013 - 2014 (Developer)

Responsible for implementing features into [PCO](#) (Powercurve Origination). Have joined a scrum team for more than a year. The first person who implemented a new platform(RHEL) supported PCO (BPS, Web Engine).

Openet

Software Design Engineer

November 2010 - 2013

[openet.com](https://www.openet.com)

2012 - 2013

PCRF (policy charging enforcement function) is an element mainly used by the Telecommunication industry. Since the PCRF software is implemented against the standard defined by 3GPP(3rd Generation Partnership Project), requirement for shipping user interface to different PCRF vendors is important. I am responsible for developing a Web base configuration system to manage the rule configuration on PCRF.

2011-2012

Openet Installation Framework. It is a command based framework that deploys components to multiple platforms. It also summarized methods and ways of component installations into one package. My responsibility is to maintain and gather the requirements to enhance the framework to be able support multiple platform deployment.

2010-2011

Automated test framework. It is used by engineering to automate deployment and testing. My responsibilities are to add a Web base testing using Selenium library into this framework.

Skill set:

JBOSS application server, Maven, EJ3.0, Hibernate 3.0, SEAM, GWT(Google Web Toolkit), HTML, Java script, Selenium web automation test, JSF2.0, ORACLE 11g, H2 Database.

Platforms:

RHE6, HP/Unix, Sun Solaris SPARC, Sun Solaris x86.

2009 - 2010

Maintaining existing product, Device Description Repository(DDR), Used to collect latest mobile devices specification information from UAProf and WURFL and host as application server for Telecommunication company Wap Portal.

2008 - 2009

Maintaining existing product, XSL IDE, is a proprietary IDE to do with Extensible Style Language (XSL). A new copy of XSL will be generated after retrieving information from DDR. The xsl then will be passed to a translation engine to translate a best viewed HTML or WAP page for a particular mobile device that is visiting the portal. For the sake of easy maintenance and time saving, XSL IDE is created. It produces a startup template and graphical based tree view to edit a XSL document. XSL IDE is implementing a generic Swing IDE platform which we are using Netbeans Platform. WAP portal can be accessed by phone's browser with internet connection. Non-OS based Phone has smaller screen sizes and limited contents to be displayed. Solution to create a presentation framework to work with mobile devices was essential. User preferences theming and shorten the interaction during content rendering. This application allows users to do exactly like a social networking website, I like make friends, comment, send messages in mobile phones.

Skill set:

JAVA SE, XSL2.0, Netbeans Platform, Spring core, Spring-mvc, Javascript, JQuery, Javascript, SQL, PHP, PLSQL, Axis2

Platforms:

RHE4, Solaris SPARC 5.5, Tomcat 5, IBM Websphere 5, Oracle Weblogic 4

Database:

Oracle 10g, MySQL

2005 - 2008

- Develop and design Instant Messenger Application for mobile phone which connects to MSN, Yahoo, Gtalk and Device Profiler Application.

Mobile Phone Communication system. The application consists of server and client.

Server required to hold socket connections from clients and establishes messenger sessions to messenger providers (MSN, Yahoo etc). Client was developed by J2ME to support most phones in the market with a single set of source code.

We were implementing a dynamic native Graphic User Interface (GUI) which can populate a set of GUI that suite all devices. Reason of using native graphics is to present an interactive, attractive and cool interface like we have in game applications.

Skills set involved:

J2ME, Java SE, Microsoft ASP.NET 2.0

Database:

MySQL, Microsoft SQL Server 2000

Education

Universiti Tunku Abdul Rahman

BSc Computer Science

2003 - 2005

Tunku Abdul Rahman University College

Diploma in Science

2001 - 2003

Certifications

Probability Theory, Statistic and Exploratory Data Analysis

Coursera

Issued Sep 2020

<https://www.coursera.org/account/accomplishments/certificate/PQF7EH8XPKVSV>

Certified Testers Foundation Level (CTFL)

ISTQB - International Software Testing Qualifications Board

Issued Aug 2019

<https://www.mstb.org/CTFL.php>

MY0037-19

Certified Testers Test Automation Engineer (CT-TAE)

ISTQB - International Software Testing Qualifications Board

Issued Aug 2023

<https://www.mstb.org/CT-TAE.php>

TAE-MY0003-23

More About Me

As a Father of 3, with the remaining fractual time, I still find myself enjoy doing:

- Baduk/Go board game
- Running
- Photographing