Michael Braiman – 180097 Ontario Inc.

Senior Software Development Engineer in Test (SDET)
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Creator of the open-source Test Automation Framework UITAF: (Website: uitaf.org, GitHub: https://github.com/braimanm/selenium-uitaf).

Summary

Senior Test Automation Architect and SDET specializing in test automation software development and system performance testing with extensive IT experience across various industries, including telecommunications, gaming, insurance, E-commerce, financial, and banking sectors.

Expertise

- **Architecture Design:** Expertise in designing and developing robust, scalable test automation frameworks tailored to various business needs.
- **Testing:** Proficient in Unit, Integration, System, Functional, and Performance testing of Client-Server applications.
- **API Testing:** Skilled in testing SOAP and REST services, ensuring comprehensive validation of service functionalities.
- **Testing Techniques:** Experienced in Black-box, Grey-box, and White-box testing methodologies.
- **ETL Testing:** Experienced in data generation and transformation for testing purposes (ETL).
- **Methodologies:** Well-versed in Agile and RUP methodologies, facilitating seamless integration of testing practices in development cycles.
- **DevOps and TestOps:** Strong knowledge of DevOps and TestOps practices, enhancing CI/CD pipelines with automated testing solutions.

Technology Knowledge Summary

- **Platforms:** Windows, UNIX, Linux, Mac
- **Programming Languages:** Visual Basic, VB Script, Java, JavaScript
- **Databases:** SQL Server, Oracle, PostgreSQL, NoSQL Document Databases like MongoDB
- **Test Automation Frameworks:** Selenium WebDriver, Appium, Playwright, Robot Framework, Karate, Katalon Studio, Tricentis Tosca, JMeter, QTP
- **Continuous Integration Systems:** Jenkins, Circle CI, Azure DevOps Pipelines
- **Source Code Repositories:** GitHub, Bitbucket, GitLab, Azure DevOps Repos
- **Cloud Computing Services:** AWS, Azure, GCP, Docker, Kubernetes

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Professional Experience

Scotiabank Commercial Global Engineering, Toronto, Canada
ETL Test Automation Architect (Contract)
January 2022 – July 2024

- **Framework Development:** Developed a comprehensive Test Automation Framework for validating Talend-based ETL jobs, ensuring alignment with business specifications. The framework was built using the Java ecosystem, Salesforce Partner WSDL, and Kong Unirest client for testing SOAP/RESTful API services.
- **UI Automation:** Architected and implemented a UI-based Test Automation Framework tailored for highly customized Salesforce and nCino banking applications. Designed with the Separation of Concerns (SOC) principle for enhanced maintainability, the framework can be preconfigured to utilize either Selenium or Playwright Java testing frameworks. Additionally, set up a Jenkins server test environment to enable parallel test execution, significantly improving testing efficiency and scalability.
- **Data Generation:** Specialized in generating synthetic data for testing and training purposes using various Salesforce APIs.

QA Consultants Inc., Toronto, Canada
Test Automation Architect/ Team Lead / Project Manager (Contract)
March 2021 – January 2022

- **Team Leadership:** Led multiple SDET teams across various projects, managing architecture, software development, technical mentorship, and project delivery. As a certified Tricentis Tosca Product Consultant, guided team members in mastering Tricentis Tosca.
- **E-Commerce Testing:** Developed new Test Automation scripts for a Magento-based E-Commerce application using Katalon Studio and Java/Groovy.
- **Infrastructure Design:** Designed and implemented a Test Automation infrastructure for parallel test execution on a distributed Azure Cloud environment using Selenium Grid 3.

Canada Life Assurance Company, Toronto, Canada
Test Automation Architect (Contract)
September 2020 – February 2021

- **Framework Development:** Architected and developed a new Test Automation framework for testing Canada Life, Salesforce, and Vlocity-based business Web and Mobile applications using Java and Selenium/Appium.
- **Cloud Integration:** Implemented Test Automation infrastructure for parallel execution of test cases in the Azure cloud, integrating with Bitbucket Git repository and Jenkins CI.
- **Mobile Testing:** Architected and implemented Mobile Test Infrastructure to run multiple test cases against SaaS Cloud Test Automation Platforms, tested using Perfecto Mobile, BrowserStack, and Kobiton.

QA Consultants Inc., Toronto, Canada (Amica Mutual Insurance, USA client)
Software Development Engineer in Test (Contract)
November 2019 – May 2020

- **Framework Design:** Designed and implemented a Test Automation framework for Digital, client-facing Web, and Mobile insurance applications, allowing cross-platform execution without modifications.
- **Script Development:** Implemented business-oriented test automation scripts using Java and various open-source projects, including Appium and Selenium WebDriver APIs.
- **Mobile Integration:** Integrated mobile testing with local emulators/simulators, physical devices, and the cloud mobile test provider Perfecto Mobile.

Scotiabank Wealth Management, Toronto, Canada
QA Automation Consultant (Contract)
August 2019 – October 2019

- **API Framework:** Designed and implemented an API test automation framework for validating Salesforce data integration (ETL) processes using Java WSC, SOAP partner API, and REST client.
- **ETL Validation:** Developed test cases for validating data integrity and Salesforce business triggers using REST API calls and SOQL queries.
- **UI Automation:** Designed and implemented a GUI Web test automation framework for Salesforce Lightning applications using Selenium, TestNG, and Allure.

RBC Capital Markets, Toronto, Canada
QA Automation Consultant (Contract)
May 2017 – May 2019

- **UI Automation:** Designed and developed a UI Test Automation framework for multiple enterprise business applications, ensuring compliance with regulatory requirements in Canada and the US.
- **API Automation:** Converted UI automation tests to backend functional API tests, reducing execution time from 9 hours to 16 minutes through a multithreaded testing approach.
- **Infrastructure:** Built Test Automation Infrastructure for automated UI test execution using Selenium Grid, Jenkins CI, and GitHub.

eBay Classified Group (Kijiji), Toronto, Canada
QA Automation Consultant (Contract)
November 2015 – April 2017

- **UI Automation:** Designed and developed a UI Test Automation framework for www.kijiji.ca, featuring data-driven, environment-agnostic, and browser-agnostic capabilities.
- **Parallel Execution:** Implemented parallel test execution and automated test execution as part of Jenkins CI delivery pipeline.
- **API Automation:** Developed an API testing framework for RESTful services with similar qualities to the UI framework.
- **Performance Testing:** Developed performance load test suites using Apache JMeter.

Univeris Corporation, Toronto, Canada
QA Automation Specialist (Contract)
September 2010 – September 2015

- **Test Scripts:** Developed test automation scripts for next-generation Enterprise Wealth Management Systems, focusing on Java Services (EJB) and Business Entities (JPA).
- **XML Datasets:** Created a framework for automatic generation of XML datasets from Excel-based entity specifications for data-driven testing.
- **Mobile Testing:** Developed scripts for hybrid mobile applications using Appium.

IIROC (Investment Industry Regulatory Organization of Canada), Toronto, Canada
QA Automation & Performance Specialist (Contract)
October 2008 – June 2010

- **Performance Testing:** Designed and executed performance tests for a market surveillance system processing over 300 million transactions per day.
- **Data Simulation:** Created large datasets to simulate market activity for performance testing.
- **Client/Server System:** Developed an automation client/server system to simulate user activities of multiple client applications.

Cryptologic INC., Toronto, Canada
Team Lead QA Platforms/Automation Development Consultant
August 2005 – October 2008

- **Team Leadership:** Led and trained a team of QA Automation developers/testers, developed proprietary automation tools, and performed server load and performance testing.
- **UI Automation:** Developed UI automation tools for testing Adobe Flash objects and Casino/Poker games.

Aritel Communications subsidiary of Comverse Network Systems LTD, Toronto, Canada
System Analyst / Senior QA Specialist (Contract)
August 2001 – August 2005

- **Call Flows:** Analyzed customer requirements, designed call flows, and implemented Voice Mail system customizations using Comverse proprietary scripting language.
- **Unified Messaging:** Tested Unified Mailbox Services for integrated voice, fax, and email.

Education: B.Sc. in Electrical Engineering