

Dragan Nikolic

Software Craftsman

Burnaby, BC, Canada

+1.778.882.9678

dragan.d.nikolic@gmail.com

linkedin.com/in/dragandnikolic

Summary

Software Development Professional specialized in Test Automation. Passionate about software architecture and design and creating clean code that is easy to understand and maintain. Strong believer in Agile processes as a framework for effective, human and responsible software development.

Technical skills

- Programming Languages: Java, Python, C++, C#, JavaScript, Ruby, Go
- Test Automation: Selenium WebDriver (Java, JavaScript, Ruby), Rest Assured, Postman, Sikuli, xUnit, Cucumber, Behave, Robot Framework, TestNG, Mocha, Pytest
- CI/CD: Jenkins, TeamCity, Bamboo
- Databases: PostgreSQL, MySQL, Oracle, MongoDB
- Web Development: Nodejs, Django, Ruby on Rails, HTML, CSS
- Virtualization: Docker, VMWare, VirtualBox
- Mobile Development: Android, Symbian
- Games Development: Unity Game Engine

Experience

QE Lead / Grid Dynamics, Belgrade, Serbia

FEB 2019 - PRESENT

Developing automated tests for web services components of complex financial software solutions. The client, a big USA financial services company, needed this to ensure quality and enable continuous and efficient integration and deployment of their software systems.

Responsibilities:

- Lead Web Services QE team of 6 automation quality engineers
- Interview QE candidates
- Mentor less experienced QE engineers
- Implement and execute automated tests for the REST API and SOAP web services components

Achievements:

- Refactored and enhanced test frameworks for couple of web services to support multiple test environments and be more data driven
- Prepared and delivered lectures for Belgrade QE school

Technologies: Java, TestNG, Rest Assured, Postman

QE Lead / GameCredits, Belgrade, Serbia

NOV 2017 - JAN 2019

Ensuring quality of Web and Blockchain based products for Gaming industry.

Responsibilities:

- Lead and mentor a team of 9 QA software engineers
- Define QA strategy and plans
- Participate in the implementation of the CI system
- Define test architecture and develop test frameworks
- Create and automate test cases
- Develop test libraries
- Review the test cases (both manual and automated)
- Perform the testing and report the results

Achievements:

- Overlooked creation of a comprehensive set of test cases for testing the Web UI, Web services and Android products.
- Created Cucumber (Ruby and JavaScript) based test frameworks for automating the test cases. Used Selenium Webdriver for testing UI, axios http client for Web services, and Appium for Android applications. The important part of the frameworks was the creation of the Domain Specific Language (DSL) that isolated test cases from the changes in the system under test.
- Created Jenkins pipelines and Dockers for executing test cases in Jenkins CI system
- The team was well organized and able to promptly verify new product versions and releases

Technologies:

JavaScript, Ruby; Cucumber, Gherkin; Selenium Webdriver, Appium, axios http client; Docker; Postman

Test Automation Lead / E-xact Transactions, Vancouver, Canada

AUG 2015 - OCT 2017

Ensuring quality of the Web based online transactions solutions.

Responsibilities:

- Define test architecture and develop test frameworks
- Participate in the implementation of the CI system
- Review customer requirements
- Create and automate test cases
- Develop test libraries
- Review the test cases (both manual and automated)
- Perform the testing and report the results

Achievements:

- Created a comprehensive set of test cases for testing the Web UI and Web services online transactions solutions.
- Created Cucumber and Selenium (Ruby based) test framework for testing Ruby on Rails Web Application. Part of the framework were the test libraries based on the Page Object pattern that provided domain specific API for creating automated test cases.
- Created Mocha JavaScript based test framework for testing Nodejs based Web services.
- Created dockers for running system under test and for executing test cases against it.
- Created a Ruby based script for orchestrating a set of docker containers to setup the system under test and execute the various types of test cases (unit, system) against it. The script also collected results and presented it to a CI system (Jenkins or Bamboo).

Technologies:

JavaScript, Ruby; Cucumber; Selenium Webdriver, traefik http client; Docker; Jenkins, Bamboo, Wercker; Ruby on Rails, Nodejs

Lead Game Software Developer / Game Plant Entertainment, Vancouver, Canada FEB 2015 - OCT 2016

Developed games for mobile platforms using Unity Game Engine.

Responsibilities:

- Define software development process and lead the team of four people
- Design and implement game code

Achievements:

- Established efficient agile development practices utilizing tools like Trello and Git
- Successfully implemented a racing game, Beetle Adventures, and published it on Android Play Store and iOS App Store

Technologies:

Unity Game Engine, C#, JavaScript

Senior SDET / Teradici Corporation, Vancouver, Canada JAN 2011 - FEB 2015

Teradici develops PC-over-IP (PCoIP), a UDP-based remote display protocol for delivering remote desktops and applications to the PCoIP end user devices. Large numbers of client and server combinations required significant testing effort to verify daily builds and major releases. Creating automated test cases was important to reduce manual testing effort and enable efficient agile software development and continuous integration.

Responsibilities:

- Define test automation strategy and architecture and evaluate and select test automation tools and

technologies

- Design and develop test framework and test libraries for implementation of the concrete test cases
- Setup test lab and implement software solution for test equipment reservation and use
- Mentor less experienced team members
- Create and automate test cases
- Review the test cases
- Perform the testing and report the results

Achievements:

- Key member of the Core Automation team that created Python Pytest based test framework and developed test libraries that enabled easy creation of the large set of test cases
- Setup and maintained a test lab containing PColP devices produced by the company, as well as VMWare virtual machines running the company's PColP protocol. The lab helped increase productivity of other test engineers, as well as efficient running of the automated tests.

Technologies:

Python, Pytest, Robot Framework, Django, VMWare solutions, Jira, TeamCity

Multiple Roles / Nokia Corporation, Vancouver, Canada

NOV 2001 - NOV 2010

As Release Manager for Ovi Share service (App Store) planned and coordinated service releases. Improved release process and designed and developed tools for automating release activities which resulted in reducing time required to prepare release by 75%.

As R&D QA Manager for Games Platform defined and deployed the defect management system across 5 R&D teams located in different countries. Automated preparation of defect reports resulting in significant time reduction to prepare reports. Analyzed defect reports and provided information about product readiness and recommendations for improving software development process. Provided process-related training and facilitated triage and defect review meetings.

As Project Manager for Music Manager for Mac application liaised between subcontractor and Nokia internal R&D teams. Project was completed on time and within the budget which was achieved by applying best software development practices and maintaining excellent communication between all parties.

As Technical Lead of the PC Tools Software Team was responsible for test tools for the devices created in the Vancouver Centre. The tools were used by the R&D team during product creation, by the Production Testing team for creating automated production tests in factories, and by Customer Care to support end users and troubleshoot device problems. Created tools for the components such as USB port, HDD, Accelerometer, Bluetooth and device monitoring. Developed in C++ and C# in .NET environment using Visual Studio IDE. Provided local PC Tools support and training.

Won first prize in the local site contest for porting a Bluetooth printer driver for Nokia S60 devices and HP 995c printer.

Education and Certificates

- B.Sc. Mathematics & Computer Science, University of Belgrade, Serbia
- Master Certificate in Project Management, University of Victoria, BC, Canada