Nova Wilde

(They/Them)

SDET – MANAGER/LEAD/ARCHITECT

OBJECTIVE

To obtain a challenging SQA role designing detail-oriented frameworks and systems for continuous quality assurance. My goal is to achieve success as a cohesive team.

CONTACT

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WEBSITE

NovaWilde.tech

SKILLS

OS: Windows. Linux (RHEL/Ubuntu/Mint)

Languages: Java, Python, Javascript, SQL

Markup: HTML, CSS, XML

Data: JSON, YAML, OpenAPI

Source Control: Git, SVN

Databases: MySQL, MongoDB/Atlas, Firebase, Cassandra, Redis, MS SQL

Libraries: TestNG, Junit, JDBC, Kafka, Apache POI, Jayway, Jackson, Freemarker, JCommander, Lombok, Hamcrest, RestAssured. Cucumber, Extent, Allure, jQuery

Tools: Playwright, Selenium/Selenoid, K6, Postman, Docker, JMeter, Burp Suite, Hashicorp Vault, Snyk, Virtual Box, WebdriverIO, Fiddler, Wireshark, SoapUI, Maven, Ant

IDE: IntelliJ, Eclipse, Visual Code

DevOps: Jenkins, Azure, Ansible, Artifactory, IIS, Bash Scripts

Project Tools: Bitbucket, Github, Jira, Tricentis Tosca / QTest, SauceLabs, Salesforce

Cloud: AWS

AI: ChatGPT API, CoPilot

EXPERIENCE

LEAD, SOFTWARE ENGINEER IN TEST - NEXTECH
2024 - Present

Summary: Hired to modernize legacy testing infrastructure and align/mentor the team for cutting edge industry changes.

Achievements:

- Created a playwright framework from scratch in Javascript/Typescript.
- Generated ui-models (Page Objects) and API helper methods programmatically using AI, eliminating the need for SDETs to code them.
- Took Azure App Insights logs and used the information to generate a complete Postman Repository of 700+ example api calls in less than a week.
- Created a k6 performance testing framework from scratch in Javascript.
- Created an MS SQL database scanning utility that mapped the distribution of data in the database using KDE (Kernel Density Estimation) to generate new test databases of a given size from scratch.
- Created and maintained Azure pipelines for integrating test frameworks into CI/CD processes.
- Led two teams of contractors (12 SDETs total) and one senior SDET.
- Initiated an automation club for training junior engineers.
- Oversaw the maintenance of three legacy C# Selenium frameworks

ACTIVITIES

- Creating a platform for converting specs into a program using ChatGPT's API
- Programming stock AIs using Neural Networks and Evolutionary Algos
- Created an RPG video game in Javascript during the pandemic to teach my kids science and philosophy
- Was the creator and owner of a PHP OSCommerce website that sold pop culture t-shirts
- Wrote an addon in LUA that played World of Warcraft using decision trees
- Created various websites for personal projects and friends businesses

PERSONAL PROFILE

- Emotionally Intelligent
- Empathetic
- Ethical Integrity
- Highly Driven
- High Standards of Success
- Detail Oriented
- Team Centric
- Curious
- Independent Learner
- Self Directed
- Strategic
- Habit Focused
- Visionary Planning

MANAGER, SOFTWARE QUALITY ASSURANCE - CBOE
2017 - 2023

Summary: Hired to establish a SQA department, hire a team, create test frameworks, build devops infrastructure, and launch a weekly release cycle using CI/CD processes.

Achievements:

- Hired three senior SDETs and mentored the team
- Created test frameworks in Java for a C# REST API, a C++ OPRA multicast message normalization system, a custom MySQL database engine, and an Apache Spark application.
- Mentored the creation of a Selenium framework and maintained another Selenium framework for a React SPA.
- Created Java utilities to compare and analyze CSVs too large to load to memory, quickly and efficiently.
- Created Java utilities to validate data integrity in CSV files stored in AWS S3 buckets.
- Applied OOP principles and patterns like polymorphism, factories, singleton, wrappers, loose coupling. Designed all frameworks for scalability, maintainability, and extension. Separated data/config from code.
- Created a deployment system based on ansible/artifactory. This system was modular and allowed dozens of projects to plug into it and deploy to multiple environments. Each target server was highly configurable. This system supported hundreds of individual deploy jobs.
- Created a dashboard for monitoring test and deployment statuses and metrics using javascript, bootstrap, and charts.js
- Established a CI/CD process using Jenkinsfile Blue Ocean pipelines
- Installed and administrated three Jenkins instances
- Maintained testcase repositories and requirements traceability using qTest (Tricentis Tosca)
- Integrated with Jira, Jenkins, Bitbucket, and qTest APIs
- Oversaw all production deployments
- Joined the PRISM+ board of education and participated in several inclusivity initiatives

SR. SDET – TRADING TECHNOLOGIES
2016 - 2017

Summary: Hired to restore and extend an existing python test framework for a drag and drop algorithmic trading web interface.

Achievements:

- Restored all Selenium python testcases for the Algo Design Lab web interface.
- Integrated the framework with the platform's REST APIs
- Created a stress testing framework for algo executions
- Created a custom report using plotly
- Developed regression test plans
- Helped organize volunteering opportunities

MANAGER, SOFTWARE QUALITY ASSURANCE – HARLAND CLARKE DIGITAL 2008 - 2016

Summary: Hired to establish a SQA department, hire a team, establish test plans/frameworks, establish deployment scripts, and implement a monthly release process.

Achievements:

- Defined the software development and quality assurance processes for the team
- Hired three SDETs and mentored the team
- Wrote regression and validation test plans
- Developed a REST API test framework in Java for a Java based API
- Developed a SOAP API test framework in Java
- Developed a Selenium Framework in Java for a marketing platform
- Developed performance testcases using JMeter
- Authored a markup language called SMML for creating email templates that display correctly in all inbox clients
- Created a project that generates mock data for our software's demo accounts with proper statistical distribution using monte carlo simulation
- Developed scripts for deploying to various environments. Initially as a bash script and later using ansible
- Performed security testing using BURP Suite and logged over 2000 bugs in the system.
- Performed additional manual security testing and logged an additional 500 security bugs. These include XSS, SQL Injection, authentication issues, vertical/horizontal privilege escalation, cross-site forgery, clickjacking, session hijacking, and more.
- Involved in product planning, design reviews, specification, demos and managed feature planning/priorities.
- Maintained Gantt charts in MS Project
- Wrote sample C# code for our REST APIs
- Took lead on resolving production related issues
- Resolved bugs in the Coldfusion based application
- Received the 'Pillar of Excellence' award for employee engagement, awarded to the top 1% of employees

IT SUPPORT – CME GROUP
2006 - 2007

Summary: Worked for CME for two summers during an internship program doing IT Support work. Completed several upgrade projects, after hours hardware refreshes, and resolved time-sensitive issues.

Achievements:

- Installed Windows images
- Performed hardware upgrades
- Handled technical support calls
- Installed wireless cards
- Soldered trading devices back to working order after taking damage on the trading floor