

TOOL PROFICIENCIES

- Git, GitHub, GitHub Actions, Jenkins;
- Jira, Jira + XRay, Zephyr for Jira, TestRail;
- Selenium WebDriver, WebDriver.io, Cypress;
- JUnit, NUnit, Mocha, Chai, Jest;
- Jenkins, GitHub Actions, AWS Lambda.

TECHNICAL PROFICIENCIES

- Integration & automation development;
- Python, Java, Kotlin, Ruby, PHP;
- Javascript, Typescript, Node, React;
- PostgreSQL, MySQL, SQLite;
- Agile software development methodology.

WORK HISTORY**Stroom, Inc. // Frontdoor Home**

Software Engineer

October 2020 - September 2022

- Collaborated on the design, documentation, communication, and rollout of org-wide software development process changes to improve product stability during concurrent dev and research initiatives after a major growth event
- Performed in-depth investigations of a data pipeline spanning Twilio rooms, Postgres databases, and Amazon S3 buckets using internal and external APIs, custom python tools, log analysis via DataDog, and direct inspection via SQL
- Designed, documented, executed regression and feature-level test plans for the product platform, including public APIs
- Created GitHub Actions workflows to run targeted automated regression tests on-branch and summarize results in PRs
- Implemented a proof-of-concept React application for visualizing highly dimensional data to better assess gaps in test coverage across a complex matrix of devices, platforms, and browsers for multi-participant video calls
- Established standards for ticket-level testing, provided training on those standards to development teams
- Reviewed developer test summaries for any coverage gaps and identified integration test cases worth automating

Left Coast Financial Solutions

Chief Technology Officer

June 2019 - March 2020

(Note: I continued to consult on business & technical initiatives March 2020 - March 2022 with approval from Stroom COI staff)

- Managed contract technologists on devops, full stack development, IT infrastructure, and brand identity projects
- Continuously identified milestones for internal & customer-facing technology roadmaps; contributed to their completion
- Performed data collection and market research to identify out-of-box and custom solutions for internal automation needs
- Established Jira-based task tracking for all teams, including non-technical BSA Compliance and Account Services groups
- Tested and troubleshot AWS Lambda functions integrated with Jira and open-source banking software Cyclos
- Defined, refined, documented, and integrated best practices for software development and customer PII protection

Cylance, Inc.**January 2016 - June 2019**

(Note: Acquired by BlackBerry Corporation in February 2019; continued as the BlackBerry Cylance Business Unit thereafter.)

Senior Security Automation & Orchestration Engineer

March 2018 - June 2019

- Developed custom integrations and scripts for tools which Demisto did not yet fully or satisfactorily support
- Designed and constructed scheduled jobs to fully automate and report on various regular housekeeping tasks
- Defined and implemented process for security automation requests, tracking, and prioritization
- Completed Cylance Management Essentials Certification training coursework

End-to-End Product Quality Lead

April 2017 - February 2018

- Guided development process, established test standards for greenfield project through productization, rearchitecture
- Owned end-to-end quality upon integration into product ecosystem through test design, execution, reporting, response
- Performed cross-product full stack investigations to determine root cause of defects in forensic endpoint data integrity
- Organized patch releases while preparing test infrastructure for a complete architectural shift in the next major version
- Provided tailored training on both architectures for varied audiences including tier 1 support, data science

Senior Quality & Test Automation Engineer

January 2016 - March 2017

- Contributed to python automation framework for generating and verifying forensic data throughout the data pipeline
- Participated in configuration, maintenance, and improvement of automated test pipeline Jenkins jobs
- Led team through feature release to improve feature coverage, platform/compatibility coverage, automation stability

EARLY CAREER

Marin Software

Software Quality Engineer

February 2015 - December 2015

- Maintained and expanded an existing Java Selenium automation framework in response to new features
- Redesigned regression tests in anticipation of a new OLAP pipeline leveraging Presto atop HBase and Solr
- Ensured health of traditional and near-realtime Solr operations and RESTful APIs in two distinct pipelines
- Implemented python scripts to consolidate performance data from component logs in lieu of Kibana support

NAVEX Global

Quality Assurance Engineer

September 2014 - December 2014

- Developed a C# Selenium automation framework prototype against a user management app and its integration points
- Owned testing and quality standards for a quarterly release of the user management app common to all products
- Improved development cycle transparency with changes to test planning and automation development

Webtrends

Quality Assurance Engineer II

June 2013 - September 2014

- Led continued development of an established C# Selenium automation framework to improve reporting value
- Owned features from inception to delivery to ensure that design, implementation, and testing met quality standards
- Established and maintained valid testing environments consisting of multiple servers and interdependent components
- Delegated to, trained, and collaborated with a testing team in China to expedite results and increase test coverage
- Introduced Agile and QA process and a new Groovy Selenium automation framework for a rapid-release Rails app

Portland State University Cooperative Education Program (PCEP)

Tripwire, LLC

QA Specialist Intern

January 2013 - June 2013

- Documented, tested, and developed tests using a Selenium-based, product-specific, GUI testing framework
- Wrote scripts and configured Jenkins jobs in support of automation and data generation efforts

Thetus Corporation

Quality Assurance Intern

July 2012 - January 2013

- Automated aggregation of input data for performance tests and refinement of product logs
- Performed black box exploratory, regression, and integration testing of multiple products
- Collaborated with design and development teams to define requirements and thorough test plans

Portland State University Library Web Developer

November 2011 - January 2013

- Used HTML, CSS, PHP, jQuery, and MySQL to create web pages and dynamic media
- Improved accessibility with semantic HTML, microformats, and progressive enhancement techniques
- Produced original designs and design improvements for desktop and mobile web pages and graphics
- Developed a Sinatra/DataMapper Ruby application to manage library objectives and related resources

EDUCATION

Master of Science

Computer Science

Specialty: Programming Language Design & Applications

Specialty: Intelligent & Adaptive Systems (Artificial Intelligence and Machine Learning)

Portland State University

September 2011 - August 2015

Guest instructor

Bachelor of Science (Dual Degree)

Computing & Software Systems

Computer Engineering & Systems

Computer science and electrical engineering lab tutor from 2008 to 2010

University of Washington – Tacoma

September 2008 - March 2011

Minor: Mathematics

Associate of Arts & Sciences

Course Focus: Computer & Electrical Engineering

Member, webmaster of student branch of American Society of Mechanical Engineers (ASME)

First place web site in regional ASME technical writing expository website competition, 2007

Tacoma Community College

September 2006 - June 2008