

QUALIFICATIONS

Languages: JavaScript (Node.js), Bash/Shell, Python, Ruby, HTML/XML, JSON, YAML, CSS

RDBMS: MySQL, SQLite

Development Environment: Linux/Unix/Mac OS X/Windows

Editor/IDE: Atom, Nano, Visual Studio Code, Notepad++

Version Control: Git/Github

Test Automation Frameworks/Runners: Selenium Webdriver, AppliTools, Protractor, Appium (mobile), Karma, RSpec, AVA, Tape

Cross Browser Test Automations: SauceLabs, BrowserStack

Continuous Integration: Jenkins Pipeline

Bug Tracking and Test Cases Managements: JIRA, TestRail, Zephyr

Software Development Life Cycle (SDLC): Agile/Scrum, Kanban

Technical Writing/Documentation: Confluence, Markdown, Microsoft Office, Google Docs/Sheets

Other: Accessibility (a11y)/WCAG2.0, RESTful API Testing, Virtual Machine, Attention to Details, Team Player, Multi-tasking

EXPERIENCE

Senior Software Development Engineer in Test

Evolent Health, Arlington, VA, USA

01/2019 to Present

- Developing test automation scripts in Appium Java Client and JUnit for both iOS and Android mobile applications designed to engage patients on Medicaid and Medicare
- Migrating mobile application testing framework from Xamarin Test Cloud to Visual Studio App Center to integrate tests into Azure DevOps (previously known as VSTS) CI/CD system
- Leading the API test automations separate from UI automations as part of the ongoing efforts to reduce number of flaky UI tests while improving the regression test coverage

Software Development Engineer in Test

Oracle (UGBU previously known as Opower), Arlington, VA, USA

11/2015 to 01/2019

- Designed test plans for end to end automation regression for cloud based web applications accessed by millions of customers of both domestic and international utility companies
- Developed new and maintained existing test automation scripts in Node.js/Selenium Webdriver environment for front-end web applications
- Created in Node.js End to End API test automation scripts for web services that power the front end widgets
- Integrated test suites into CI system through Jenkins Pipeline
- Updated and added new features for data mockup and survey automation tools in Ruby
- Developed the test automation framework utilizing the third party Visual Regression Testing technology for the delivery team to standardize testing processes
- Prototyped an ad-hoc testing framework to assist the End to End web applications testing before User Acceptance Testing
- Led the development of tooling in JavaScript/Python for improving the Localization QA process within the organization

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- Identified and troubleshoot application issues through reviewing application logs on the application servers or by the Splunk query results/dashboards
- Led the discussion within the team and across teams with stakeholders (EM/PM/Dev) regarding testing strategies, scopes and improvements
- Maintained testing environments across different tiers for application report databases and servers in Linux/Bash/MySQL environments
- Generated reports of testing results and provided feedbacks to tech lead and EM/PM to prioritize bug fixes
- Summarized and documented testing plans, scripts and best testing practices into Standard Operating Procedures(SOPs) to benefit inner/inter team cooperation
- Translated technical languages to non-technical personnel for better inner/inter teams communications
- Conducted accessibility audits for the web widgets in accordance with WCAG 2.0 rules
- Managed in a Scrum team the testing responsibilities to ensure optimal qualities of Oracle products

Software Test Engineer

Lexmark International, Lexington, KY, USA

06/2013 to 10/2015

- Led the development of tooling in Python/VB scripts to develop side by side strings lookup/comparison database for both Unicode and non-Unicode languages
- Developed automation solution in Bash for application installations, configurations and update
- Created and executed automated and manual test plans/cases for Enterprise Content Management software
- Maintained the testing environment of testing client and server machines across OSs
- Met standards for software quality and maintaining thorough documentation
- Identified, interpreted and reported defects and updating bug database
- Pinpointed and traced the root cause of application issues on the server/client via reviewing the information stored in the system and application logs
- Trained external vendor on Lexmark's product to help them execute test cases
- Investigated Pros and Cons of existing open source/commercial tools to improve internal team's productivity

EDUCATION

University of Kentucky

Master of Science, Mechanical Engineering

Lexington, KY, USA

08/2010 to 08/2013

Shanghai University of Electric Power

Bachelor of Engineering, Thermal and Power Engineering

Shanghai, China

09/2003 to 07/2007

Coursework: Programming in C, Data Structure, Microcomputer, Statistics