JOSHUA KING

Software Engineer

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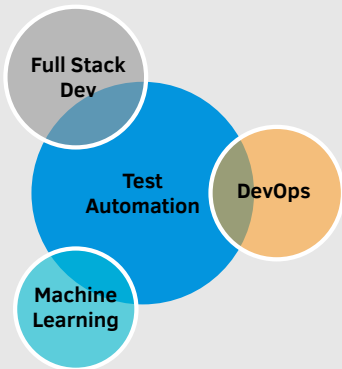
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Technical Skills

Overview

Programming

Javascript • Python • Selenium

SQL • Git • AWS

Golang • Scala • Java

C# • SAS • MongoDB

Education

Ph.D. Candidate, Computer Science
Specialization: Machine Learning
University of Kentucky
2011 - 2013 | Lexington, KY

B.S., Computer Science
Marshall University
2007 - 2011 | Huntington, WV

Experience

Oct 2019 - Present	**Senior Software Engineer** — OneCause

- Focused on improving testing patterns and tooling in a jenkins-based CI/CD pipeline.
- Mentored other Software and QA Engineers.
- Projects: E2E test CI/CD rollout, API performance tooling
  Tools: Angular, Docker, Selenium, AWS Lambda, Mage (Golang)

- Moved to a product-based team in April 2020, where I have implemented integration and e2e tests in the existing (Heroku) pipeline.
- Migrated functionality persisted in durable, single-node Redis to a hybrid of clustered Redis and MongoDB.
  Tools: AngularJS, Heroku, Codeship, Jest

May 2018 - Oct 2019	**SDET** — AngiesList

- Joined as a QA Engineer tasked with evangelizing automated testing. Coached and encouraged other QA members to be involved in the transition to automation.
- Contributed to an API integration test automation framework on top of mocha/chai
- Transitioned to an SDET on the CORE platform team, where I helped migrate the original API framework to use Gherkin, updated production Scala services, and wrote various Jenkins jobs.

Feb 2015- Mar 2018	**Verification Engineer** — PRO Unlimited

- Performed FDA-compliant software verification as an on-site resource for Roche Diagnostics
- Transitioned a 400-test plan from fully manual to more than 90% automated test coverage using the Selenium Java wrapper, turning a 3 to 4 week process into 1 week.
- Created desktop software and USB device tests using C# and the Windows Automation libraries.

May 2013 - Feb 2015	**Research Programmer** — The Stevenson Company

- Tasked with maintaining a PHP-based report generation system.
- Moved to a research programming role focused on a Python-based questionnaire software.
- Implemented a POC using libSVM for identifying real consumer products based off of google search results. This included a simple PHP\JQuery front-end for labeling data so that the system could improve over time.

Publications

Nathan Jacobs, Joshua King, Daniel Bowers, and Richard Souvenir "Estimating Cloud Maps from Outdoor Image Sequences" in IEEE Winter Conference on Applications of Computer Vision (WACV), 2014.