MARK BABUMOSES

PRINCIPAL SOFTWARE ENGINEER

CONTACT

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Medford, MA, USA

markmoses.me

EDUCATION

MA in Computer Science

Boston University

Boston, MA | 2010

BA in Computer Science

Boston University

Boston, MA | 2008

SKILLS

- Software Design & Development
- Full Stack Testing
- Product Development
- Quality Assurance
- Technical Team Training & Leadership
- Requirements Analysis
- Resource Planning
- Automation and Infrastructure
- Process Improvements
- Articulate Communication
- AWS
- Virtualization

PROFILE

An accomplished Lead Software Engineer with over 10 years of experience in technology solutions design, support, and quality assurance, with special expertise creating and developing test automation infrastructures and leading the company-wide testing of automation frameworks. A strategic planner with an ability to streamline processes in order to increase efficiency, reliability, and accuracy and a creative problem solver capable of performing deep analysis in order to resolve potential issues and mitigate risks. An articulate professional and respected leader who mentors and motivates others to achieve operational excellence while maintaining compliance with standards and practices in order to uphold the mission of the organization.

EXPERIENCE

LEAD QUALITY ENGINEER

S&P GLOBAL (FORMERLY PANJIVA) | CAMBRIDGE, MA | 2016 - PRESENT

Was the sole quality engineer responsible for the entire Panjiva platform. Including data quality, backend tests, unit tests, front end tests and end-to-end acceptance tests. Re-engineered the entire infrastructure to be elastic and flexible while dramatically increasing both speed and coverage.

- Increased the number of tests from around 400 tests in 30 minutes to over 4,000 tests in under 15 minutes.
- Created new infrastructure that allowed for multiple languages to be used and reported up to Jenkins.
- Trained up a new mid-level quality engineer up to speed and guided his learning of the system.
- Moved all jenkins infrastructure to a separate repo and modularized all work to allow for easy updates and maintainability.
- Created QA Dashboards that allowed the team to track issues and test results.
- Re-architected Jenkins from scratch to allow for multiple simultaneous tests to run at once and installed all infrastructure needed tests on new servers.
- Moved our acceptance/ui tests over to Cypress which allowed for a much better development cycle that the UI developers have adopted as well.
- Created Bugbox on the platform that allows for any admin/internal employee to easily and quickly report bugs that are logged in github.
- Clean and re-engineered how bug tracking in github to easily access the priority

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LANGUAGES

Ruby	Advanced - Current
Python	Advanced - 2 years ago
Java	Advanced - 5 years ago
Groovy	Intermediate - Current
Javascript	Beginner - Current
PostgresQL	Beginner - Current
GraphQL	Beginner - Current

REFERENCES

RENE RODRIGUEZ
QA Manager
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NATE VAN VORST
Engineer Architect
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IAN JAMES
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EXPERIENCE (CONTINUED)

- and the component affected.
- Created Pull Request flow that required a code review and for all the tests to pass on one's branch before it could be merged in. We now have an over 95% pass rate on test runs in the main branch because of this.
- Lead team in both bughunts to find new issues and bugfests to fix issues.
- Would do full stack work fixing bugs and implementing new features as time allowed as well.

SENIOR SOFTWARE DEVELOPMENT ENGINEER IN TEST

ONE CLOUD | BOSTON, MA | 2015 - 2016

Led a technical team to perform full stack testing with python, REST, and pytest integrating with Java via Jpype, and Java development with Junit tests to add product functionality. Oversaw Jenkins administration as it affected release engineering and test automation and solved reporting issues by creating Jira test reporting plugin for pytest. Accepted critical path for releases responsibility by taking on both the top priority features for testing and becoming the primary release engineer for product.

- Increased quality and efficiency of product release, reducing launch time by 90%, by immediately recognizing deficiencies and implementing process improvements.
- Improved test coverage by implementing special product features and solving multiple testing issues, including the ability to run concurrently to lack of discipline with object oriented design.
- Enhanced visibility, accountability, and metrics for tests by creating a Jira plugin that reported all results into a modular dashboard where test trends and overall quality could be easily determined.

SENIOR SOFTWARE DEVELOPMENT ENGINEER IN TEST

VERIZON | LOWELL, MA | 2012 - 2015

Led the feature team who created the test plan and performed manual testing of the Cloudswitch Appliance. Created wrappers to build-out automation frameworks and handled support calls during feature team sprints. Strategized new automation framework using TestNG, REST for new Verizon Cloud Platform.

- Ensured quality, accuracy, and reliability by collaborating with feature teams to automate test cases and ensure the feature/product was properly testable,

- adding new test cases, training others to develop the framework and write test cases, and implementing improvements to the framework.
- Streamlined workflow by training others to write Groovy scripts for simple automation tasks.
- Reduced automation issues by identifying potential risks and resolving issues quickly and efficiently.
- Optimized processes by identifying deficiencies and implementing procedures to increase efficiency, productivity, and performance.

SOFTWARE DEVELOPMENT ENGINEER IN TEST

CLOUDSWITCH | BURLINGTON, MA | 2011 - 2012

Completely redesigned how releases work as well as improving test reliability, and conveying key metrics to all stake holders.

- Improved accuracy, reliability, and quality by automating test cases in collaboration with feature teams to ensure the feature/product was properly testable and training others to develop the framework and write test cases.
- Streamlined workflow by creating Groovy scripts for simple automation tasks.
- Increased efficiency and productivity and boosted performance by identifying deficiencies and implementing procedures to optimize processes.

SOLUTIONS ENGINEER & QUALITY ASSURANCE

BEECHWOOD SOFTWARE | BOSTON | 2008 - 2011

Provided training to maintain, port, and develop the embedded Linux environment powering DirectTV's set top boxes. Maintained and supported customers using DirecTV stress rack software, upgraded the kernel and created patches to track fixes in JIRA, and developed new scripts to add functionality.

- Improved user training by traveling to Thomson HQ in Indiana to install and conduct software demonstrations for employees.
- Optimized the functionality of set top boxes by conducting testing to assess potential risks and bugs, using bitstreams to test edge cases that are hard to reproduce otherwise. Identified and developed solutions using the resources of the source code, print statements, core files, stack traces, and console output.
- Increased customer satisfaction by communicating with clients to determine their requirements and providing timely deliverables