

# MARK BABUMOSES

PRINCIPAL SOFTWARE ENGINEER

## CONTACT

- 617.314.3650
- thewiseoutlaw@gmail.com
- 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/RDS/EC2/Route 53
- Docker

## PROFILE

An accomplished Principal 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

### PRINCIPAL AUTOMATION ENGINEER

NARA LOGICS | BOSTON, MA | 2019 - PRESENT

I completely re-architected how Jenkins was used from the ground up utilizing Jenkins pipelines to create object oriented code that could be re-used to build, test and deploy our microservices. Heavily involved in creating a better development experience, easier workflow, and enhanced testing to make sure the product was up to proper standards.

- Introduced and implemented using AWS Aurora DBs across all of our accounts to have isolated test environments with fast snapshotting capabilities.
- Implemented shift-left principles, pushing more testing into the PR phase allowing us to move to a more Continuous Integration type workflow.
- Updated Ansible scripts as needed to deploy EC2 instances connected to an Aurora DB Cluster for test and dev environments.
- Wrote new tests for various components in their respective languages to get proper junit output so we could track test results.
- Created a new pipeline for Continuous Delivery to deploy our docker images to new machines.
- Helped to re-write and integrate critical testing software so that it provided better results, was more maintainable and expanded its functionality.

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## LANGUAGES

Groovy | Advanced - Current  
Python | Advanced - Current  
Ruby | Advanced - 1 year  
Java | Intermediate - 5 year  
Javascript | Beginner - Current  
PostgresQL | Beginner - 1 Year  
MySql | Beginner - Current  
GraphQL | Beginner - 1 Year

## REFERENCES

### RENE RODRIGUEZ

*QA Manager*  
Mineral Tree  
rxrodriguez@gmail.com  
508.210.0016

### NATE VAN VORST

*Engineer Architect*  
Google  
n@vvc.im  
720.663.9206

### IAN JAMES

*Lead Engineer*  
S&P Global  
iankennethjames@gmail.com  
571.212.4456

### KERRY KEE

*VP Engineering*  
Mineral Tree  
kerrykee@gmail.com  
617.596.1591

## EXPERIENCE (CONTINUED)

### LEAD QUALITY ENGINEER

S&P GLOBAL ( FORMERLY PANJIVA ) | CAMBRIDGE, MA | 2016 - 2019

I 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 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 bug hunts to find new issues and bugfixes 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

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## PRINCIPAL SOFTWARE ENGINEER

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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

### SOLUTIONS ENGINEER & QUALITY ASSURANCE

BEECHWOOD SOFTWARE | BOSTON | 2008 - 2011