

# TONY BECKHAM

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Github profile: <https://github.com/tbeckham>  
Portfolio: <https://portfolio.tonybeckham.com>

## TECHNICAL SKILLS & STRENGTHS

**Cloud Computing:** Eucalyptus, Amazon Web Services, serverless architecture, microservices

**OS:** UNIX, Linux, MacOS, Windows

**Languages:** Java, Python, JavaScript, XML, Ruby, Shell, ReactJS

**Version Control:** Git, CVS, Mercurial, Subversion

**Virtualization:** Docker, KVM, VMWare, Virtualbox

**Infrastructure Automation:** Chef, Ansible, Kubernetes, Jenkins

**Continuous Integration**

Strong practical understanding of managing the full life-cycle of large-scale modern production software programs and projects

Extensive background in distributed systems and web scale software

Deep understanding of the latest build, test, performance test, deployment, and configuration tools.

Agile development methodology

Enjoy the challenge of resolving a problem

Natural team leadership

## CERTIFICATIONS

Amazon Web Services Solutions Architect Associate (2017)

## PROFESSIONAL EXPERIENCE

**DXC TECHNOLOGY (VIA HEWLETT PACKARD ENTERPRISE)**

**Oct 2015 – current**

### Engineering Manager

- Remotely manage four highly productive teams of highly talented distributed engineers and writers
- Manage complex projects and provide testing methodology guidance
- Collaborate with engineering leaders on setting testing and automation direction
- Responsible for over one million dollars of budget annually
- Ship several quality software releases per year that meet or exceeded rigorous quality standards ([releases](#))
- Development Team
  - Implemented and follow a bespoke agile process increasing productivity and transparency into development of new releases
  - Plan, architect and build AWS managed service solutions
  - Guide team on AWS best practices
- Quality team
  - Ship with high confidence quality software through an automated and manual testing strategy
  - Develop continuous integration/continuous testing solutions using the latest cloud computing tools and strategies
  - Provide dev/test solutions for platform developers
- Release team
  - Build and distribute software on a continuous basis
  - Constantly build and improve build tools according to performance reviews and best practices
  - Provide solution for building and publishing documentation
- Documentation team
  - Maintain and create documentation and guides for the product (Install Guide, Admin Guide, User Guide and more)

- Implement documentation curation workflows using industry standard tools and technologies
- Manage lab resources of several hundred servers, switches and other data center hard goods

## **EUCALYPTUS SYSTEMS (ACQUIRED BY HEWLETT PACKARD 10/14)**

**2012 – 2015**

### **QA Engineer**

- Lead quality engineer for Elastic Load Balancer, Auto Scaling, CloudWatch, CloudFormation, and Reporting
- Complete Infrastructure as a Service (IaaS) testing: bare metal, networking, hypervisors, SANs, and Software Components
- Responsible for creating test specifications for new features
- Creating and maintaining automated tests
- Wrote a new test framework for automated tests: Eutester4j
  - Hosted on Github (<https://github.com/eucalyptus/eutester/tree/testing/eutester4j>)
  - Tests can now be written in Java or Groovy
  - Integrated with continuous integration system
  - Based on AWS Java SDK
  - IDE integration
  - Eclipse plugin (<http://marketplace.eclipse.org/content/eutester4j-.VFKo6lPN9MY>)
- Developed a new automated continuous integration and testing system
  - Jenkins used for the interface
  - Chef used for deployments
  - Mongo DB resource tracker
  - Custom API for XMLRPC to Cobbler
  - Eutester and Eutester4j test frameworks
- Eucalyptus 4.0.2 Release Coordinator
- Eucalyptus Security Release Coordinator
  - Security release for Shellshock ([https://en.wikipedia.org/wiki/Shellshock\\_\(software\\_bug\)](https://en.wikipedia.org/wiki/Shellshock_(software_bug)))
  - Security Release for POODLE (<https://en.wikipedia.org/wiki/POODLE>)
- Provide product demonstrations to potential customers
- Present Eucalyptus at community meetups
- Scrum Master for the Services Team over several releases
  - Apply Agile methodologies: including leading sprint planning, end of sprint demos, and daily standups
  - Eucalyptus releases: 3.3, 3.4, 4.0, 4.1
  - Cross team communication
  - Project management using Jira

## **ORACLE CORPORATION**

**2009 – 2012**

### **QA Engineer - Java Platform Group**

- Technical member of Project Aurora: dynamic infrastructure for testing and DevOps
- Collaborated with Media API/framework engineers to develop automated test cases for JavaFX media stack
- Participated in weekly promotion testing and verification of promoted JavaFX builds
- Managed media assets including hardware and software for Media team
- JavaFX Samples Conversion Lead: managed a 6 person team to create and update more than 45 JavaFX samples/demo applications
- JavaFX Promotion Release Team Lead (4/09-03/12)
  - Set quality criteria required to release a promoted build
  - Assigned tasks to QA teams
  - Responsible for GO/NO GO release decision

### **Java Platform Group Software Quality Team - Java 2D**

- Developed tests to achieve 100% Java2D public API method coverage
  - Automated tests written in Java
  - Additional tests written requiring manual interaction
  - Participated in code reviews
- Completely automated SwingSet java testing
  - Using Jemmy UI testing tool wrote 100% java tests to automate testing of SwingSet java.
- JDK7 2D Weekly Promotion Lead
  - Assigned testing requirements to external testers
  - Analyzed test reports & filed failure issue
  - Accomplished goal of no test failure without associated bug

#### **Java Platform Group Software Quality Team - Language Tools**

- Pack200 for JSR-292
  - Wrote test specification for Pack200 update for JSR-292
  - Developed new automated JTREG tests written in java to provide 100% coverage.
- Embedded JDK (jrecreate)
  - Wrote test spec and plan for a new java tool used to create platform subsets (jrecreate)
  - Achieved 100% feature coverage before initial release
  - Wrote over 40 automated test using Java in step with the tool development
- Test infrastructure system
  - Deployed and tested new automated, distributed testing infrastructure (in house developed)
  - Configure and maintain over 150 test hosts of all OS flavors
  - Authored test templates used to execute tests suites in the new system
  - The system is now the standard for the Java Platform Group
  - Authored shell scripts for automated submission of nightly builds of the JDK to the system
  - Authored script to automatically execute and report code coverage for each weekly promoted build
- Test Cleanup
  - Streamlined and improved overall reliability of entire test base
  - No test failures achieved
  - Significantly contributed to a multi-phase project to clean up existing test base: Phase 1: Analyze existing tests for correctness and fix all broken tests and Phase 2: Migrate any test using scripts to a JTREG java test adding documentation and following coding best practices

#### **Java Platform Group Software Quality Team - Language Tools continued**

- Escape Analysis
  - Analyze bugs & determine customer impact of escaped QE e released to the public
  - Determine root cause down to specific changeset
  - Determine the existing test coverage and if other escapes may exist in the component area
  - Implemented required new tests
  - Incident Monitoring
  - No user reported issue older than 24 hours
  - Evaluated if it is actually a bug and is under the correct component
  - Produce a test case which can reproduce the failure using our existing test harnesses (jtreg).

#### **EDUCATION**

California State University, Hayward – B.S. Computer Science  
 University of California, Santa Barbara