

Jeffrey Michael Walker

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Experience:

2011 – Current · Decide

March 2011 – Current Director of Test

- Architected and implemented a series of heterogeneous, automated test services covering shared test data creation, functional service level testing via Spring Remoting, and functional UI testing with Selenium that are collectively used to evaluate the health of releases and the compliance to key quality metrics
- Created and executed test plans for pre-launch milestones, initial product launch, and several releases with major functionality changes. Utilized advanced test engineering strategies such as equivalence class partitioning, model-based testing, and pairwise reduction to maximize test coverage given time constraints
- Defined the vision, driving metrics, and strategy for data quality across product data while managing the execution of data and testing initiatives across a team of Data Analysts and Engineers resulting in improved data quality across multiple dimensions
- Managed all aspects of the recruiting and hiring process for the quality team comprising 3 Data Analysts and 1 Test Engineer. Managed and guided the growth of technical skills for these team members

2008 – 2011 · Microsoft

February 2010 – March 2011 Software Development Engineer in Test II

- Worked as the lead tester on several large-scale projects involving data pipeline changes, UI overhauls, large-scale architectural migrations, SEO, and changes to monetization models. Worked through the stages of providing feedback during spec reviews to developing, reviewing, and executing test plans, logging and triaging bugs, and participating in release planning. Occasionally, fixed bugs in product code when resources were short
- As owner of an initiative to improve site performance, implemented custom tools and hooks in the website itself to measure performance, conducted research to find performance bottlenecks, and drafted a document with performance goals and detailed work items how to achieve the goals
- Created a roadmap for the advancement of test automation over the course of a year and worked in conjunction with an offshore team to automate the highest priority tests with a tool that I built automating several hundred test scenarios that used to be run manually
- Participated in an on-call rotation owning resolution of several live site issues. Worked on onboarding new members and contributing to on-call tools and processes

September 2008 – February 2010 Software Development Engineer in Test

- Started as the first tester with a test lead to introduce test methodology and tools to a newly acquired startup web site that previously did not have a formal test discipline
 - Implemented formal test cases and worked to build up a comprehensive list of test cases gradually introducing more and more sophistication
 - Integrated several methodologies into the test creation workflow including equivalence classes, pair-wise reduction, and model-based testing
 - In times of limited resources, worked with developers to run test cases, coordinated bug bashes, and managed distribution and reporting of test runs and release criteria
- Developed a UI testing application written in C#.NET that interprets XML scripts and uses reflection to invoke each action on a local Selenium RC server. The tool handles logging, error handling, and other common tasks centrally reducing the cost of implementing and maintaining new tests. Uses XML files to model pages preventing coupling of script steps and underlying implementation
- Conducted interviews and contributed to hiring several new team members

2005 – 2008 · Safeco Corporation

September 2007 – Current Senior Quality Assurance Analyst

- Architected, designed, and implemented the build and deployment process for serviced components within an Enterprise Service Bus, which is used in both test and production environments. This solution uses a combination on NAnt scripts, custom .NET assemblies, CC.NET (for continuous integration), and a custom web interface to provide testers and developers with a quick and consistent method for deploying changes to services
- Recognized the need for better test tools to test middleware components; drafted a requirements document outlining the driving project risks and potential tools for mitigation. Drove the inception of a project to bring middleware test tools into Safeco.
- Developed the test strategy for the implementation and support of an Enterprise Service Bus including tools, process, and interaction with other areas within the organization. Created and executed automated tests with iTKO LISA

April 2006 – September 2007 Quality Assurance Analyst

- Wrote a .NET testing application that provides an extensible base of business objects to verify rate changes with direct access to statistics that were previously calculated in a manual way. This application dramatically decreased the time necessary to regression test rate changes and is used by several QAs on a regular basis
- As a side project, wrote an ASP.NET web application used throughout the company to track function points and productivity
- Validated the functionality and performance of critical SQL stored procedures in test and production environments, ensured that defects in applications or stored procedures would not be introduced to production servers

June 2005 – August 2005 Quality Assurance / Developer Intern

- Co-developed a .NET testing application that has been used as the common platform for all inter-department browser automation. This application parses XML files with nodes specifying test commands and uses the commands to navigate and perform assertions on multiple web applications essential to Safeco
- Worked on an extreme programming (XP) development team of 7 people in 2 week iterations; gained skills in breaking large projects into manageable modules with storyboards, evaluating user needs, programming in C# and VB.NET, and using source control applications
- Performed user needs analysis and impact assessment with users internal to Safeco in various departments, which guided the implementation of features useful and usable for users; strategies included interviews, contextual inquiry, and prototype evaluation

Education:

2003 – 2006 · University of Washington
 Seattle, WA
 Bachelor of Science in Informatics
Cum Laude

Cumulative GPA = 3.75/ 4.0

Certifications, Honors, and Affiliations



Microsoft Certified Application Developer (MCAD)

2006 · *Cum Laude* graduation status at University of Washington

2005 · *Annual Dean's List* at the University of Washington

Winter 2004 – Winter 2006 · *Quarterly Dean's List* at the University of Washington

2001 – 2003 · *Running Start* Program

This program allows for advanced high school students to take classes at a participating community college while receiving both high school and college credit; achieved an Associate of Arts and Sciences degree and high school diploma simultaneously through this program

Technical Skills:

- **Java, C#, Visual Basic, .NET platform** – Familiarity with Java and other object-oriented programming languages; Knowledge of programming extends to implementing algorithms, data structures, and development with various IDEs (Eclipse, NetBeans, Dr. Java, Visual Studio)
- **Selenium, TestNG, JUnit** – Proficient with popular testing frameworks especially those dealing with UI testing
- **SQL Server, PostgreSQL, MySQL, ADO.NET** – Experience in formulating SQL queries for stored procedures, evaluating execution cost, and integrating SQL with applications using connectivity APIs
- **Spring MVC, Maven, ASP.NET, PHP** – Familiarity with popular web frameworks and dependency management technologies
- **Unix** – Proficient at working with development tools in a Unix environment and also working with utilities such as Awk, Sed, Cut, etc. for various text-related tasks (especially production-support related / troubleshooting by mining log files)