Matt Martin

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Introduction

My ideal workplace has a vibrant environment of innovation, a strong team practicing Agile methodologies, and a culture of excellence. I bring **7 years of industry experience**, an appetite for innovation, and a broad understanding of the technological landscape. I am motivated to create, and I am not satisfied with the status quo.

Languages and Technologies

Experience with **Java**, C#, Python, SQL

Limited experience with Javascript, **Node.js**, **AngularJS**, EXTJS, D3, PHP, C++, Lisp, Perl, HTML, CSS

Technologies

Eclipse, .Net, Visual Studio, JMS, Junit, Maven, Lucene, Cassandra, Tomcat, Agile, Scrum, JIRA, SVN, Git, JSON, XML, MSSQL, Oracle, BerkeleyDB, SQLite, MongoDB, D3

Industry Experience

Technical Lead, Senior Software Engineer MSCI, 03/2013 - Present

- Designed and implemented components within a complex, distributed SOA software framework system using Java, SOAP, XML, JMS, JNDI, Oracle, PL/SQL, Python, Zookeeper.
- Led a team of 4 Software and Environment Engineers responsible for designing and implementing platform enhancements, focusing primarily on stability and performance of the distributed SOA application platform.
- Helped to define and propose a new platform enhancment project that will add throttling to the current application architecture, therefore increasing the overall stability and recoverability of the platform.
- Designed and architected a Java/Oracle software application to perform load and stress testing of the distributed SOA platform by replicating production load - consisting of millions of operations per day.
- Designed and implemented an EXTJS web application to interface with application for replicating producition load.
- Responsible for maintaining development environments for ~50 developers, spread across the world in multiple locations.

Software Engineer, United States Air Force, 07/2011 - 03/2013

- Designed, implemented, and maintained various application components and APIs within a .Net application. Application built using MVVM and WPF.
- Responsible for the holistic data layer of the application, including data persistence and retrieval. Entity Framework and MSSQL.
- Updated and maintained the charting and reporting capabilities within the application using Infragistics and WPF visualization and reporting controls.

Software Engineer, RiskMetrics Group, 05/2007 - 07/2011

- Implemented business requirements to add new features to a distributed Java Struts web application.
- Worked as part of a team responsible for building an updated data storage service within the larger SOA plaform architecture. Used Lucene for data indexing and Cassandra/Oracle for persistence.
- Designed and implemented various dev-ops tools to interact with a large, distributed SOA platform. (Java, Python)
- Upgraded and maintained in-house, python build and deployment systems

Software Engineer in Test (Intern), 05/2005 - 05/2007

- Designed and executed manual and automated test plans for a distributed web application
- Maintained an extensive automated regression testing framework built using Perl and SilkTest

Education

Master of Science in Computer Science, 05/2010
University of Oklahoma, Norman, OK
4.0 GPA

Bachelor of Science in Computer Science, 05/2007
University of Oklahoma, Norman, OK
3.98 GPA

Publications

M. Martin, N. Grounds, J. K. Antonio, K. Crawford, and J. Madden. **Banker's Deadlock Avoidance Algorithm for Distributed Service-Oriented Architectures.** Proceedings of the International Conference on Parallel and Distributed Processing Techniques and Applications (PDPTA '10), July2010.

H. K. Shrestha, N. Grounds, J. Madden, M. Martin, J. K. Antonio, J. Sachs, J. Zuech, and C. Sanchez. **Scheduling workflows on a cluster of memory managed multicore machines.** Proceedings of the International Conference on Parallel and Distributed Processing Techniques and Applications (PDPTA '09), July 2009.

John Matthew Martin. **Deadlock Avoidance in Distributed Service Oriented Architectures.** Master's thesis, University of Oklahoma, Norman, Oklahoma, May 2010.