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## SUMMARY

I have over 15 years of software engineering and application development experience. I'm currently working in Java developing REST APIs and previously worked with Python and C#.

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## COMPUTER SKILLS

### Languages

- Proficient in: C#, Python, Java
- Familiar with: C, C++, Ruby, ActionScript, Visual Basic, VB.NET, PL/SQL, Motorola 68xx and MIPS assembly, JavaScript, JQuery, CSS, HTML, and MPI/OpenMP, WCF, WPF, NHibernate, Entity Framework, AngularJS, Objective-C, Android (Java).

### Software

- Database: Microsoft SQL Server, Oracle 9i/10g, MySQL, PostgreSQL, MongoDB, Google App Engine Datastore, TitanDB, RethinkDB
- Platforms: Microsoft Windows server and desktop operating systems, Mac OS X, VMware ESX Server 3.x/4.0, Linux, Google App Engine, Amazon AWS

## EXPERIENCE

### **Principle Software Engineer**

**3/2015-Present**

#### *Six Actual Software*

- Developed REST APIs using Java, Spring, and MongoDB for precision agriculture clients.
- Developed high-performance distributed system to process millions of records from various systems into one location using ZooKeeper and Rabbit MQ.
- Extended the open source MITREid Connect server implementation to support using Stormpath as an authentication provider for users.
- Helped the organization improve their Agile development process by introducing better ticket sizing, encouraging more high-level design upfront in tickets, adding retro meetings and stakeholder demos.
- Implemented code reviews to help improve code quality and visibility.

### **Senior Software Engineer – Development Lead**

**4/2012-3/2015**

#### *Workiva*

- Worked as the development lead for a small team of developers.
- Improved performance and functionality in Python on the server side using Google App Engine.
- Developed REST web services in Python on Google App Engine to facilitate the HTML5 application development.
- Built REST API to allow file uploads using a JavaScript client and Python/Django backend.
- Built an annotation system to allow for marking up any document with an extensible array of annotation types (e.g. highlights, comments, bookmarks)
- Tuned performance for tasks like comment counting in large documents reducing runtime by an order of magnitude.
- Helped define interview process to improve quality of candidates.
- As one of the original three people in the engineering team I recruited a number of developers to help fill out the Denver office bringing the total over 25.
- Performed interviews of developers and QA candidates.
- Mentored junior developers on my team to help improve code quality and throughput.

### **Software Developer III**

**7/2011-4/2012**

#### *Jacobs Engineering Group*

- Developed applications for a variety of clients such as Denver Metro Wastewater, Texas DOT, and Los Angeles World Airports using Microsoft WPF, WCF, SQL Server, NHibernate, and C#.

**Senior C#/ASP.NET developer**

**3/2010-7/2011**

*GoDaddy.com*

- Developed high-availability software on the main GoDaddy.com homepage to facilitate campaign rotation and manipulation by marketing.
- Worked in small groups of developers and QA to develop, test, and release updates daily.
- Implemented Cassandra to handle session data on GoDaddy.com, videos.godaddy.com, and cart.godaddy.com. This reduced lost business due to server cluster changes that would have previously killed a customer’s session.
- Implemented multi-currency initiative to allow for multiple currencies for various customers around the world. This resulted in fewer declined credit cards and increased revenue.

**Associate Software Developer**

**8/2006-3/2010**

*CH2M HILL - Enterprise Management Solutions*

- Developed extensive PL/SQL stored procedures to call invoke web services to update and record geospatial information for DOJ operations around the state of California using Oracle for the California Department of Justice operation planning tool.
- Developed a complete C# and SQL Server web application to replace Excel spreadsheet calibrations used by the Kennecott Utah Copper Corporation.
- Developed a Delta V conversion utility to convert massive FHX configuration files into XML and eventually into a relational database. Using multithreading and caching I was able to reduce the running time from almost 30 minutes to fewer than five on average for large configuration files.
- Architected and implemented a VMware environment for the Wyoming Department of Environmental quality. Designed, procured, implemented the entire system \$400,000 under budget resulting in a 40% savings to the client.

**Software Engineer**

**10/2005 – 8/2006**

*The Practice Manager Group L.L.C.*

- Worked with core development team in Lithuania to implement desired functionality.
- Refactored the user interface to better match the stand-alone version

**Programmer/Analyst**

**9/2001 – 10/2005**

*U-Haul International*

- Designed an SQL database to handle every reservation made for U-Haul via the Internet and telephone (Approximately two million reservations annually).
- Implemented SQL stored procedures and triggers to handle data inserts, deletes, and updates as well as maintaining history records.
- Developed a multi-tiered API layer with C# and ASP.NET.
- Developed a multithreaded, Windows-based scanning application in C# for company stores to scan customer IDs, perform OCR operations, and submit the information to a database via the Internet and web services.
- Implemented the Double Metaphone algorithm in SQL for phonetic searching of names.
- Increased reservation revenue 946% to \$198 million annually.
- Developed a system and algorithm to validate towing scenarios with U-Haul equipment and customer vehicles resulting in a United States patent (USPTO Number [7,676,494](#)).
- Deployed a high-availability load-balancing solution to avoid downtime and increasing system reliability substantially.

**EDUCATION**

Colorado State University - 2011  
Fort Collins, CO

- Master Computer Science
- Focused on high-performance parallel computing

Arizona State University - 2001  
Tempe, AZ

- B.S.E., Computer Systems Engineering
- Focused on low-level embedded systems