

Brandon Harper

Pragmatic Software Engineer

<http://bharper.com>

EXPERIENCE & QUALIFICATIONS SUMMARY

- 13 years of professional Software Engineering experience as a pragmatic, seasoned engineer with a focus on standards based, agile, scalable, highly available software platforms based on open source technologies.
- Self-motivated, passionate, driven, self-teaching professional who is able to learn and adapt to new technologies very quickly. Keeps abreast of the latest technologies as a hobby as well as a career. Recent technologies I've been playing a lot with include Mockito, Coffeescript, Akka Framework, Git, jQuery, and ExtJS.
- Great verbal and written communication skills; communicates well with clients, colleagues, and executives

EDUCATION & PUBLICATIONS

- **EDUCATION:** Computer Science, Regis University - Denver, Colorado. Junior, Second Semester; completed areas include Software Engineering, Java, C, UML, Unix, OS Theory, Computation Theory, and OO Analysis & Design.
- **EDITORIAL REVIEW BOARD:** *ColdFusion Developer's Journal*. 2006-2007
- **TECHNICAL EDITOR:** *Inside ColdFusion MX*, ISBN: 0735713049. Published in August, 2002.
- **AUTHOR:** *Java Developer's Journal* & *ColdFusion Developer's Journal*. 2004-2007

TECHNICAL SKILLS SUMMARY

- **PRIMARY:** Java, ColdFusion, Mac OS X, Linux (RedHat, Ubuntu, CentOS), Maven, Spring, JPA, Hibernate, Ant, Servlets, JSP, Apache HTTPD, Apache Tomcat, JBoss, Jetty, MySQL, PostgreSQL, MS SQL Server, Amazon Web Services, XML, XHTML, JSON, JAXB, TestNG, JUnit, Mockito, Subversion, Scalability, Systems & Software Architecture
- **SECONDARY:** Python, Apache Lucene, XMPP, EJB, Javascript, jQuery, ExtJS, Adobe Flex, Actionscript, Akka, Apache Wicket, Git, Coffeescript, Ext GWT (GXT), Apache Axis2, JAX-RS, SOAP, REST, Active Directory, Windows, XMPP, Oracle
- **TERTIARY:** C, C++, Java NIO

RECENT INDUSTRY WORK EXPERIENCE

SENIOR SOFTWARE ENGINEER: Symplified, Boulder CO. 10/09 - Current - Symplified is a Cloud Security startup which provides a SaaS platform to enable single sign-on (SSO) to Cloud based applications such as Salesforce.com & Google Apps, traditional enterprise applications such as SAP, and even COTS applications. Symplified Engineering uses the Agile methodology in 2 week iterations using Test Driven Development with coding rules enforced (90% of our code is covered by unit tests via TestNG). We write code for a Cloud based, SaaS administration system, as well for our Linux based appliances.

- Worked with our Architect and two Jr Developers to develop our user provisioning product, which detects changes in Active Directory and replicates them to external applications such as Salesforce and Google. I wrote the listener threads (and a service which manages a small thread pool) which detect and parse changes from Active Directory. Skills/technologies used include Java, Spring, JPA, Hibernate, JAXB, MySQL, TestNG, JSON, Active Directory, DirSync, JNDI, Maven and Threading.
- Rewrote our Appliance management interface to simplify the code base, raise code coverage, and remove some unnecessary cruft (JSF). Skills/technologies used include Java, Python, JSP, Java Servlets, JSON, Spring, jQuery, and Apache Commons File Upload.
- Troubleshooted and fixed numerous performance issues in our Flex based administration UI.
- Develop and maintain our Cloud based administration system, Singlepoint Studio. Technologies used include Java, Adobe Flex, JPA, Hibernate, JAXB, Spring and TestNG.
- Rewrote a problematic file upload system to be fully cross platform and work across most all modern browsers from IE6 to Google Chrome. Skills used include Javascript, jQuery, Java, and Java Servlets.
- Took over an incomplete portal application from a contractor written in ExtJs and finished it, fixed bugs, etc. Skills used include Javascript, JSON, ExtJs, Java, and Java Servlets.

SENIOR SOFTWARE ENGINEER: BT (BT Conferencing, Video Business Unit), Westminster, CO. 05/08-10/09 - BT is one of the largest telecom companies in the world with over 100,000 employees and a market cap of over 23 billion dollars. I worked on a small Agile team in 5 week release cycles with high-end video conferencing technology. BT's SaaS video conferencing product is the industry leader which in use by 56 of the top Fortune 100 companies.

- Part of BT's Core Architecture team-- I helped design our clustered, high availability environment. Technologies used include JBoss, Apache Tomcat, Apache HTTPD, Solaris, Linux, Load Balancing, etc.
- Added various enhancements and equipment to BT's core resource scheduling algorithm, which schedules everything from bandwidth usage, to video conference equipment usage, etc. all across the globe for Fortune 500 clients.
- Implemented geocoding into our user and systems data to improve our algorithm of assigning videoconferencing and bandwidth resources during conference scheduling. Technology used includes Java, Apache Lucene, Hibernate, Hibernate Search, JPA, Sybase, and Spring.
- Attempted to move the technology in our platform stack forward by adding technologies into it and our development process including Spring, JPA, Hibernate, and JUnit.
- Developed and automated functionality for various videoconferencing hardware from vendors such as Cisco, Polycom, Tandberg, and LifeSize. Technologies used include HTTP, SSH, SNMP, Telnet, Java, and JUnit.

SENIOR SOFTWARE ENGINEER: Me.dium, Boulder, CO. 02/07-02/08 - Me.dium (now OneRiot) was a well funded, high visibility start-up dedicated to exposing the people dimension of the internet by recommending sites, people, and chat topics to it's users. I was hired as part of a team of founding engineers to build and scale various parts of Me.dium's infrastructure in preparation for

For references and other information about me, check out my LinkedIn profile: <http://www.linkedin.com/in/devnullled>

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1,000's of concurrent users using Agile/Scrum methodology managed via Rally during the seeding phase of financing.

- Rewrote our chat client implementation using a Java NIO based library which reduced our thread usage per server by half to increase our horizontal scalability
- Ported our main Java server product from Jetty to Apache Tomcat 6 using NIO based connectors which cut our CPU usage by over 50 percent, and vastly improved the stability of our flagship product
- Co-architect of a Java based public website for Me.dium which was powered by various services within our SOA, as well as JBoss, Apache Wicket, Spring, Hibernate, Maven, JUnit, and PostgreSQL. Built from scratch and completed in two months with a small team and using Scrum to replace a legacy Drupal based website.
- Mavenized & automated the website development environment, setup, configured & tuned an n-tier application cluster running RedHat, JBoss 4.2 & Apache 2.2 for the website, and mentored Junior developers.
- Created and maintained several core services used across the Me.dium enterprise.
- Refactored / converted a POJO based service architecture to EJB3 with Spring Injection and Hibernate 3.1 running on JBoss 4.2 to move from a "siloeed" architecture to an SOA based approach.
- Part of a self-driven skunkworks team who created a new product concept based on Java, Flash, Flex, and Actionscript which helped push the creative direction of the company.

SENIOR SOFTWARE DEVELOPER: Acxiom, Broomfield Colorado. 02/03-2/07 - Acxiom is a NASDAQ traded, 1.5 billion dollar company with locations all over the globe. I worked in the Acxiom Risk division which provided various SaaS based risk mitigation and screening services for a diverse client base of small to Fortune 500 companies and government agencies. This position started out under InsightAmerica which was a startup company which grew from 40 employees to over 100 during my tenure, which was then acquired by Acxiom in September of 2005.

- Key Architect and developer for a core enterprise service platform which powers and manages several multi-million dollar products. Implemented in Oracle, Java, JBoss, JDBC, and JMX.
- Project leader and Server Architect for a turn-key migration of 30+ new J2EE application servers to the Acxiom data center for 15+ products. Technologies and skills used included JVM Tuning, Load Testing, Network and Server analysis, Code Reviews, etc.
- Architect for the application framework of Acxiom InsightCollect v3, the flagship product for our \$85M per year division. Technologies used included Java, Oracle, ColdFusion MX 7, and MS SQL Server
- Architect/lead developer for an enterprise reporting service platform which used proprietary search & scoring algorithms to determine relationships between people and within groups/fraud & crime rings of people utilizing Java, Oracle, ColdFusion, MS SQL Server, and PostgreSQL.
- Enterprise ColdFusion Subject Expert. I worked with various groups within Acxiom and assisted them with everything from JVM & server tuning advice to questions about best practices in software development. I also served as an informal mentor for a team of twelve developers in my division.

SENIOR DEVELOPER: Mallfinder Network, Denver Colorado. 10/01-2/03 - Mallfinder Network is a SaaS provider for websites and other retail management solutions for over 140 malls across the US using a unified, highly scalable application architecture. I was the employee of the month in March, 2002.

SOFTWARE DEVELOPER: Tesser, Boulder Colorado. 11/99-9/01 - Worked on high-traffic, high visibility web sites such as netidentity.com (which was recently acquired by Tucows). Wrote and maintained a CMS used on all Tesser sites.

SOFTWARE DEVELOPER / SYSTEMS ADMINISTRATOR: Online Marketing Network, Loveland Colorado. 5/98-11/99.

WEBMASTER / ASSISTANT SYSTEMS ADMINISTRATOR: University of Northern Colorado, Greeley Colorado. 1/98-5/98.

EXTRACURRICULAR ACTIVITES, ACCOMPLISHMENTS & INTERESTS

Software Engineering News Source & Community Involvement - My personal website's content is aggregated by sites such as the Adobe News Aggregator, Java Blogs, etc. My blog has also reached large audiences over the years by being featured on popular sites such as Slashdot, Digg, the O'Reilly Hacks Blog, the Indeed blog, and del.icio.us/popular.

High Profile Product - Me.dium was featured in national publications such as NY Times, USA Today, CNet, Forbes, and Yahoo!. Featured download on CNet, microsoft.com, and Flock. Launch partner with Microsoft for IE 8.

ACTIVITES / ORGANIZATIONS / INTERESTS

- **Open Source Software:** I write about solutions to "gotchas" on my blog, and have contributed time to troubleshoot/fix bugs in projects such as JBoss, Spring, and AmaroK.
- **Academic Interests:** Cloud Computing, Scaling, High Availability, and Server Virtualization.
- **Geek Interests:** EFF, Ubuntu Linux, FreeBSD, Mac OS X, Video Games, and Open Source Software
- **General Interests:** Cars, motorcycles, music, travel, dining, dogs, double rainbows, and photography

For references and other information about me, check out my LinkedIn profile: <http://www.linkedin.com/in/devnullcd>