

Brandon L. Duncan

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Software Engineering Manager Increasing Productivity through Agile Processes and Frameworks

Professional Profile

Accomplished manager with a proven ability to develop and implement enterprise software applications in a startup environment. Have led key engineering initiatives to increase efficiency using eXtreme programming methodologies. Recognized as an expert in distilling Marketing requirements into highly readable technical specifications.

Respected leader, able to build highly motivated engineering teams both onshore and offshore. Keep up-to-date with changes in technology through continuing professional development and personal projects.

Areas of Expertise

- Developing new applications and overseeing the entire product lifecycle.
- Managing virtual teams comprised of members in Silicon Valley and India.
- Debugging complex customer problems such as memory leaks and performance issues.
- Creating valuable IP through patentable technologies.
- Architecting n-tier systems using synchronous or asynchronous protocols.

Technical Skills

Languages: Java, Velocity, SQL, Javascript, HTML, XML, Perl, Delphi, PHP, C/C++
Protocols/Technologies: AJAX, MQSeries, Apache/Tomcat, Oracle, MSSQL, MySQL, IIS
Tools: Idea, JBuilder, JDK1.4, Visual Studio, CVS, JProfile, JUnit, Ant
Operating Systems: Linux, Windows XP, OSX, Solaris, AIX

Work Experience

Movaris Inc., San Jose, CA

Oct/2001 – present

Engineering Manager

- Currently managing 4 senior level Java engineers working on Movaris' Sarbanes-Oxley enterprise web application, our single largest revenue stream, as well as managing Movaris' 8 person offshore team.
- Worked with Hyperion, a strategic partner and investor to develop a web services-based integration with their Financial Management application.
- Built several AJAX-based UI elements such as our hierarchical tree and paging widgets
- Architected and implemented the hierarchical security model for Movaris Certainty.
- Lead development effort, as well as managed a group of engineers, through the entire product lifecycle for Movaris Designer, a Windows application written in Delphi/C++.
- Developed the first commercial SAP connector based on the Java Connector Architecture.

Accomplishments:

- Promoted to Engineering Manager.
- Promoted to Engineering Lead for the Movaris Designer product.
- Promoted to Senior Software Engineer.

Gap Inc., San Bruno, CA

May/2001 – Oct/2001

Lead Systems Engineer - Enterprise Integration Group

- Worked with various groups within the IT department to maintain and upgrade the MQSeries architecture. Focused on increasing message throughput to OS/390 mainframe from Unix systems.
- Ported RSA-based MQSeries channel encryption software written in C on NT to Unix and MVS.
- Served as engineering lead for implementation of EAI products from SeeBeyond, used to distribute incoming real-time sales data from around the world to the mainframe.

Accomplishments:

- Became an IBM Certified MQSeries Solutions Expert.
- Earned Administrator certification for the SeeBeyond family of products.

Lowell Consulting, San Jose, CA

Aug/2000 – Jan/2004

Founder

- Architected full-service web hosting environment providing DNS, POP3, HTTP, FTP, and SSH services via multiple Linux servers. Designed a robust network including RAID-based MySQL database servers and PHP-enabled Apache web servers behind a custom built Linux-based firewall.
- Provided consulting services for several customers, such as developing ecommerce websites with integrated credit card processing and backend databases.
- Extensive experience integrating Userplane's flash-based web communication suite into a client's existing social networking website.

ourblock.com (formerly telleo.com), San Jose, CA

May/2000 – Apr/2001

Software Engineer / Lead Middleware Architect

- Designed and implemented the MQSeries (middleware) architecture to support our 3-tier system. This entailed linking our Linux-based web and application servers with backend AIX-based M80s running Oracle via MQSeries v5.2 utilizing clustering. Worked extensively with the application developers to integrate MQSeries into our site. This required developing APIs in C and Perl to provide a layer of abstraction between MQSeries and our application code.
- Other development included applications that accept incoming data feeds and distributes them to the databases and a C-based monitoring tool that dynamically determines the active cluster channels in the MQSeries environment and periodically tests them to ensure that data is flowing.

Accomplishments:

- Promoted to Lead Middleware Architect.
- Became IBM Certified MQSeries Specialist.

IBM Almaden Research Center, San Jose, CA

Sep/1999 – May/2000

Clinic Team Member

- Part of the Harvey Mudd Clinic Program. This project, called eNOVELties, involved the creation of a Java based reader for the OEB (Open E-Book) standard.
- Headed efforts to integrate IBM ViaVoice with the Java speech API to give the eNOVELties reader full voice recognition and dictation functionality.
- Developed Java code to manipulate the XML-based OEB files to more easily parse and display their contents.

Accomplishments:

- eNOVELties was honored as an innovative product at the RIAO 2000 conference in Paris, France.

U.S. Patents

- Electronic Book with multimode I/O. Patent 7,107,533 granted 9/12/2006.
- Process builder for a routable electronic document system and method for using the same. Patent 7,103,835 granted 9/5/2006.
- Apparatus, method, and system for documenting, performing, and attesting to internal controls for an enterprise. Patent pending, filed 7/10/2004.

Publications

Academic Journals:

- "NOVeLLA: A Multi-modal Electronic-Book Reader with Speech and Aural Interfaces" — with Josh Hodas, Neel Sundaresan, Jared Jackson, Walter Nissen, and Jude Battista. *International Journal of Speech Technology* Volume: 4, Issue: 3/4, July 2001 - October 2001, pp. 269-284.

Magazine Articles:

- "Heartbeat: Channel Monitoring Tool for MQ Clusters". *MQ Update* Volume: 39, September 2002, pp. 43-47.

Seminars:

- Endymion Systems, Oakland, CA, "Introduction to IBM MQSeries and Middleware Messaging", June 2001.

Education

Harvey Mudd College, Claremont, CA – Computer Science Department

- B.S., May 2000
Major: Computer Science Minor: Economics
Senior Design Project: *NOVeLLA: A Multi-modal Electronic-Book Reader with Speech and Aural Interfaces*
Academic Advisor: Professor Mike Erlinger
- GRE Score: 2130/2400 Analytical: 800/800 Quantitative: 780/800 Verbal: 550/800

Stanford University, Palo Alto, CA – Continuing Studies Department

- Introduction to Painting, Introduction to Opera, Beginning Fiction Writing Workshop, Middle Eastern Studies

University of California at Santa Cruz Extension

- Introductory Financial Accounting

Other Experiences

- Founded www.mqseries.net, the leading source for MQSeries information on the Web with over 13,000 users and over 150,000 technical posts. Developed a stable revenue stream through Google AdSense and corporate sponsorships. *April/2001 – present*
- NCAA Intercollegiate basketball player at the University of Redlands and Harvey Mudd College. *Sept/1996 – May/2000*