

Doug Baron
1210 Olympus Dr, Austin, TX 78733
dbaron@alumni.rice.edu, 512-577-4775

Summary

Accomplished developer with a solid knowledge of Java, C/C++, and Internet technologies from TCP/IP, HTTP, CSS and HTML to Struts, XML, Xschema and XSLT. Have designed, built and supported award-winning desktop applications for the Macintosh and Windows. Recent focus has been on Java- and XML- based Web application and Web Service development.

Key Skills

Languages and Protocols: Java (*Sun Certified Programmer for Java 2 Platform 1.4*), J2EE / Swing, C / C++. XML, SOAP/XML-RPC, XSchema. XSL, HTML, JavaScript, CSS, Python, VXML, HTTP, SQL, TCP/IP, LDAP

Dynamic Page Tools: JSP, Struts, Tiles, Velocity, Taglib, Java Servlets, PHP, ASP, Dynamo (jhtml)

Back End Applications, Libraries: Tomcat, Hibernate, Castor, Apache, Microsoft IIS, MySQL, Microsoft SQL Server, UserLand Frontier, Netscape Directory Server, Verity Search Engine

Professional History

Software Engineer

Blue Coat Systems

September 2004 – Present

Key developer of administration application for policy-based network security / connectivity appliance.

- Extensive use of DHTML for dynamic form layout and presentation
- Tools include Java, JavaScript, JSON, CSS, Velocity, Struts, Tiles, Hibernate/HSQLDB, Castor, Junit, Subversion, Ant.
- Developed user interface to configure, and service to monitor high availability based on LinuxHA

Independent Consultant

Chilehead Software

Jan 2004 – August 2004

- **IBM Research:** worked on infrastructure for new features of the IBM partner website, <http://www.ibm.com/partnerworld>. Created XML-based content workflow using Ant, XSL and other tools.
- **Gridiron Recruits:** designed and implemented a Web-based, standalone CD data retrieval system for football recruiting. Highly customized Tomcat configuration developed for read-only service delivery.
- **AquaMinds, Inc:** developed Apple Keynote export module for NoteTaker, based on XSLT.
- **Congregation Beth-Israel:** assisted with congregational Web site upgrade on a volunteer basis.

Internet-Web Consultant

Cirrus Logic, Inc.

August 2003 – November 2003

Lead developer on future Internet/Extranet project.

- Using Java/J2EE, selected Struts + Tiles application framework and developed JSP-based Web application, running under Tomcat, building on a proprietary XML content management system (CMS) and struts-html, struts-beans, struts-logic and struts-tiles tag libraries.
- Developed multi-user build tool using Ant and CVS, supporting Documentum-style release cycles.
- Wrote XSL transformations for product catalogue publishing.

Consultant / Developer

AquaMinds, Inc.

April 2003 – August 2003

Developed outline-based Java productivity application prototype.

- Created multi-layered, interactive Java Swing outline viewing application.
- Designed XML media interchange format to generate XML source for the Swing outline viewer.
- For new import/export capability, wrote XSL transformations to and from new XML schema.

Consultant / Senior Developer

Broadband Mechanics

September 2002 – March 2003

Worked remotely on broadband multimedia application, platform infrastructure and presentation layer.

- Developed Web-based outlining product using DHTML (JavaScript, DOM API, Events, CSS) and a back end Web service (UserLand Frontier). Supports MSIE 5.x and Mozilla, Windows and Macintosh
- Wrote UserTalk code to generate MIME Multipart formatted text,, used to create email attachments, plain/html message bodies

Developer

UserLand Software, Inc.

November 2001- March 2002

Enhanced the Frontier kernel, the foundation technology behind Manila and Radio, UserLand's popular Internet applications.

- Implemented Simple Cross-Network Scripting (SNCS), allowing UserTalk function calls to seamlessly invoke web services based on XML-RPC, SOAP or custom protocols.
- Upgraded OPML support to include "cloud" tags in the XML. Added bitwise AND, OR and XOR verbs to the UserTalk language.
- Managed the release of Frontier 8.0.5, including: final testing and review; updating the online store; published full and upgrade packages and change notes; supervised beta test group.
- Achieved a 30% performance gain in the news reader with one simple optimization.
- Implemented an HTML tag scanner to support standard text style control (toggling) and anchor tags (live URLs) in the outliner.
- Developed syntax coloring feature, reworked the window management system under Windows to use SDI instead of MDI, in a development version.

Chief Architect

Webalo, Inc.

April 2001- September 2001

Developed architecture and development plan for next generation Internet application platform. Used Java Swing, W3C DOM, and Network class libraries to build system prototype.

- Wrote Swing-based tool to allow user specification of complex data mappings between UI components. Users could drag links between tree nodes to compose a directed graph to specify data flow.
- Collaborated with founder on product design, architecture, messaging protocols.
- Designed data model, Java classes and XSLT style sheets to generate large- and small-model HTML and VoiceXML for wireless publishing application.
- Met prototype creation deadlines for investor demonstrations.

Consultant / Developer

Big Chief Partners

July 2000 – March 2001

As an independent consultant, designed and developed web services, applications, and project plans for a number of Internet startups.

- Created a web-based geographic event navigation tool for **NearSpace** of Petaluma, CA, integrating the Verity Search Engine with ASP and IIS to enable text-based event lookups.
- Developed web-based administration portal using ASP, VBScript and SQL Server to monitor web traffic and site health for **FocusEngine** of Israel.
- Administered server deployment, including load-balancing scheme based on Alteon Web Systems ACEdirector Web Switch, WebTrends traffic analysis tools, and SiteScope server monitors.
- Created management site for service development and publishing using Cold Fusion and SQL Server for **NearSpace**. Integrated Cold Fusion with custom Java application to process file uploads.
- Analyzed needs and proposed a solution for Oracle server high availability for **Hot Dispatch** of Mountain View, CA.
- Researched CRM systems, analyzed needs, and recommended a service integration plan for **HopeLink** of Redwood City, CA.

Senior Member, Technical Staff

Corio, Inc.

March 1999 - June 2000

Planned project, prioritized schedule, evaluated tools and services, and developed Java software for ERP service management.

Platform included Java, J2EE, JSP, JNDI), and JavaScript and Apache, ATG Dynamo, running on Sun Solaris and Microsoft NT.

- Evaluated application servers and recommended ATG Dynamo for internal service development based on features, cost and ease of use.
- Developed security platform EMS (Entitlement Management System) based on SiteMinder, Netscape Directory server (LDAP) and Oracle (JDBC).
- Integrated with PeopleSoft security APIs to provide **Single Sign-on** throughout EMS services.
- Developed Java APIs and designed management application for enterprise-wide security services featuring single sign-on and personalized web page delivery using ATG Dynamo server pages.
- Began application development with EJB running on WebLogic.

Independent Consultant

Chilehead Software

May 1994 – January 1999

- **Animatrix, Inc.:** Developed a WYSIWYG Web page layout program in C++ using Metrowerks PowerPlant and DataPak's Paige word processing engine. Supported multiple columns, textual sidebars, and text flow between pages. Implemented AWT-based Java client component for HTML rendering.
- **Austin Hayne Corp.:** Ported their flagship product Employee Appraiser from Windows to Macintosh in Symantec C++ using the TCL application framework.
- **Apple Computer, Inc.:** Developed system-level emulations libraries for forward-compatibility with future OS.
- **Magic Quest, Inc.:** Hired to solve rendering performance problems that had been plaguing Math Ace®, a CD-ROM-based educational game, for months, learned the C++ source base and implemented optimizations yielding an order of magnitude performance gain in four days.
- **Technology Corp.:** Developed tools for next-generation technologies, using C++ in Metrowerks and Symantec development environments.
- **Summit Software Company:** Conducted feasibility study for future development of their BasicScript software development environment.

Lead Developer

UserLand Software, Inc.

June 1990 - May 1994

Led development of UserLand Frontier, a full-featured script development and runtime environment, including compiler construction, database management, outline and word processing, inter-application communications, file system control, thread management, and other OS-level functionality.

- Spearheaded product design, architecture, and development, including feature plans, scheduling, coding, testing and delivery.
- Led the development of versions 2.0 and 3.0, both offering substantial new functionality.
- Earned MacUser Magazine's "Editor's Choice" for Development Tool of the Year.

Engineering Manager

Living Videotext / Symantec Corp

July 1985 - June 1990

Developed MORE, version 3.0, a powerful outline processor with integrated desktop presentation features.

- Led staff of three full time programmers and two contractors.
- Designed "Rules" feature that applied structured document formatting based on user selection.
- MORE 3.0 shipped on time and under budget, hailed as a major step forward in power and ease of use.

Lead Developer [MORE 1.0 and 2.0]

- Key contributor to product design and implementation, from feature conception to final debugging.
- Worked closely with documentation writers; managed contract programmers.
- Achieved recognition with accolades from leading publications. MORE 1.0 was MacUser Magazine's Product of the Year and won Best Outliner in MacWorld Magazine Reader's Choice World Class surveys.

Education

Rice University, Houston TX, *cum laude*

B.S., Electrical Engineering, B.A., Computer Science.

Merit-based Brown Engineering Scholarships