

Geert Bevin

Passion-driven open-source developer and musician

Profile

<i>Birth date</i>	25 October 1974	<i>Address</i>	Avenue de Scailmont 34 7170 Manage Belgium
<i>Telephone</i>	+32 64 84 80 03		
<i>Mobile</i>	+32 477 302 599		
<i>Email</i>	gbevin@uwyn.com	<i>Web</i>	http://www.uwyn.com http://www.rifers.org http://www.eigenzone.org http://www.miozone.org
<i>Languages</i>	Dutch, English, French		

Technical skills

<i>Languages</i>	Java (1.0 - 1.6), C++, PHP, Groovy, Python, Perl, Javascript, C, Tcl/Tk, Bash.
<i>Databases</i>	PostgreSQL, Oracle, Derby, H2, HsqIDB, MySQL.
<i>Specifications</i>	Servlets, JDBC, JSP, JavaBeans, JEE, REST, Hessian, SOAP, XML-RPC CGI, HTTP, HTML, CSS, DHTML, XML, XSL, XPath, XPointer, RSS, Atom, RDF, LaTeX, SGML, DSSSL, DocBook.
<i>Toolkits & Frameworks</i>	Terracotta DSO, Ehcache, RIFE, Spring, DWR, Hibernate, Quartz, OpenLaszlo, ExtJS, Prototype, JQuery, ASM, Lucene, JavaMail, Apache Commons, Swing, Java2D, Java Advanced Imaging (JAI), Apache Axis, XFire, Caucho Hessian, Qt, Gtk+, Glib, Gnome.
<i>Applications</i>	Apache Httpd, Apache Tomcat, Caucho Resin, Orion, Mortbay Jetty, GlassFish, JFlex, Antlr, TestNG, JUnit, YourKit, JProfiler, JConsole, Subversion, CVS, BitKeeper, Eclipse, IntelliJ IDEA, NetBeans, X-develop, XMLmind XML Editor, <oXygen/> Macromedia Fireworks, Adobe Photoshop, OmniGraffle, Keynote, The Gimp, iWork, OpenOffice, Adobe Illustrator, ImageMagick, Graphic Converter, Parallels Desktop, VMware Fusion, VMware Workstation, VNC, Reaper, Logic Studio 9, Metric Halo MIO Console, Plogue Bidule, Wave Editor, Safari, Firefox, Mozilla, Opera, Netscape, Internet Explorer.
<i>Web Service APIs</i>	Amazon Elastic Computing Cloud (EC2), Amazon Simple Storage Service (S3).
<i>Tools</i>	Maven, Apache Ant, GNU Make, Firebug, Standard UNIX command-line tools.
<i>Operating Systems</i>	MacOSX, Linux, Solaris, WindowsXP.

Work experience

Senior Developer, Eigenlabs,

2010 - present

Work on the core EigenD system behind the Eigenharp instruments.

Eigenlabs is breaking new ground with their range of Egeharp, and they are iteratively refining their system to meet new and changing needs. It is one of the most exciting areas of musical software development today, involving a mixture of digital sound generation, high data rate sensors, extremely configurable environments and completely new ways of performing music.

Senior Developer, Terracotta,

2007 - 2010

Creation of products and APIs for distributed and clustered Java applications. Development on many aspects of the 'scale continuum' where applications can seamlessly be moved from a single unclustered machine all the way through to a WAN deployment at various partitioning and redundancy levels.

These are some noteworthy aspects I worked on:

- Low-level transparent 'distributed shared object' mechanism through byte-code manipulation and class replacement for Sun JDKs and IBM JDKs.
- Various integration points for a SEDA message-driven asynchronous architecture.
- Real-time on-the-fly distributed statistics gathering system over a custom tunneled JMX protocol, also offering RESTful services with graphical tools.
- General-purpose clustering toolkit as a library as opposed to the relatively invasive Terracotta platform, providing common data structures and coordination tools that can be used directly in any Java application after including a single JAR file.
- Created a reusable Java 2D widget VU meter for real-time monitoring of statistics in Swing applications, this is now used throughout most of the Terracotta developer console.
- Researched, designed, architected and implemented the Ehcache monitoring console, which is a Rich Internet Application that provides an intuitive and user-friendly ExtJS GUI to manage clustered and unclustered caches as well as perform maintenance operations.
- Designed and implemented a cluster-wide asynchronous fault-tolerant processing framework which ensures optimized locality of reference and offers features like work stealing and one and a half phase commit.
- Researched, specified, designed and partly implemented 'Examinator', which is Terracotta's reference application with real-world features and requirements. It combines most de-facto Java frameworks and clusters them using Terracotta products.

CTO, Uwyn,

2002 - present

Company founder

Founded this company to specialize in dynamic web applications, rich internet applications, web 2.0, platform-independent programs and interoperable web-services. Most of the projects leverage the RIFE web application framework or OpenLaszlo.

These are the most significant achievements:

- Invented and implemented native continuations in Java for the RIFE framework through byte-code manipulation. This opened the door for many other dynamic behaviors in other Java frameworks and heralded an era of more nimble and flexible enterprise-level tools as opposed to the rigid and heavy approaches that were the standard before. This got me elected as a Sun Java Champion by a community of peers.
- Delivered a top to bottom solution for one of the largest online US retailers, allowing them to create innovative rich media customer interactions from within their familiar content creation tools. This provides exciting new

features for tenths of million customers, making their shopping experience more pleasant and engaging while still presenting the information in a clean and elegant way. The details of this solution are confidential. However, I can arrange for a private demonstration and an architectural overview.

- Long-term collaboration with Magnet Magazines (de Persgroep) for the creation, maintenance and development of a modern content-managed website for all their magazines, with a focus on e-commerce and community building. A general suite of features has been developed to be able to cherry-pick and customize the needs of every individual site with limited additional investments.
- Development, support and maintenance for the mobile phone operator Proximus of high-performance modular internet, intranet and extranet customer relation management tools. The solution integrates with the internal business processes and all information is handled and stored in a highly secure manner.
- Analysis and development for Paratel of a platform-independent desktop application for the visual creation of MMS messages with automatic handling of different target phones and size limitations. Through a web-service, customers are able to send their messages in batch after having designed them locally.
- Creation of Bla-bla List, an open-source, secure, simple and sharable to-do list Rich Internet Application. It runs as a Web 2.0 service inside a browser without requiring any installation. Users are able to sign up in a matter of seconds and access their to-do lists from anywhere with internet access.
- Analysis, refactoring and extension for de Persgroep of a custom back-office e-commerce application. It has been dissociated from presentation logic and is provided as a generic service oriented application that can easily be integrated in partner sites.
- Platform-independent fat client creation for Greenpeace Belgium for multi-user contact and customer relationship management. The server-side architecture is service-oriented and fully decoupled.

The details of other projects are available on my company website:

- <http://uwyn.com/products>
- <http://uwyn.com/showcases>

CTO, the Leaf,
Company founder

2001

- Design, analysis and development for Ems-Taxipost of a standalone multi-platform application that allowed customers to easily create, manage and print dispatch notes in a visual and intuitive manner.
- Creation of an automated online contest management and participation tool for l'Echo de la Bourse. Through the website, readers had the opportunity to answer daily and weekly questionnaires. The redaction of l'Echo had access to a complete multi-user role-dependent intranet application for the organization of the event.

Independent developer,

1997 - 2001

Various projects as lead developer, consultant or project manager.

- Analysis and development of a generic solution for Planet Internet to provide back-end features such as automatic page authentication, user and group management, handling of JSP trails and breadcrumbs, scheduling of maintenance events, fault-tolerant database classes and localization.
- I-Skin was a realtime 3D installation that had been created for the exhibition 'Avignon, ville de beauté'. Visitors immersed themselves in a high-speed tunnel of images and intuitively selected images according to their beauty preferences. Every image had been classified according to its architectural, fashion or body characteristics. During the image selection, these characteristics performed transformations on the basic I-

Skin, invoking changes in form, texture, color, transparency and internal structure. At the end, the visitor had created a virtual representation of his/her beauty tendencies and was plunged into the inner structure of his/her personal I-Skin to experience a breathtaking ride through its inner structure, decorated with the selected images.

- DTD design and creation for The Reference of a communication protocol between a WAP gateway and other tiers in a complex architecture involving a leading Belgian bank, database vendor, telecom operator and portable phone manufacturer.

Software developer, Ubiquity,

1998 - 1999

Design and development of numerous internet / intranet database-driven websites and applications.

- 4Catalogs, product catalog management system for print and web use.
- Teamcontrol, nomenclature and role-based intranet access to projects and related files.
- 4Docs, document-based project management with Word and PDF integration and role-based visibility.
- Ubiquity's DHTML company website, using AJAX before the term even existed by loading content asynchronously into layers that were laid out using a custom-built JavaScript layout engine.

Software and internet developer, Full Motion-i,

1997 - 1998

Design and development of internet websites.

Text conversion and encoding migration tool development.

System operator and administrator, Maescopy,

1997

Operation and maintenance of a heterogeneous network (Windows / MacOs / Irix platforms).

Lay-out and desktop publishing.

Sales account manager, Ingram Micro,

1996

Customer technical support and sales.

Open-source and personal projects

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| - RIFE | Cutting-edge alternative full-stack Java web application framework | http://rifers.org |
| - RIFE/Crud | RIFE extension for automatic creation of CRUD webapps from POJOs | http://rifers.org |
| - OpenLaszlo | Platform for creating Rich Internet Applications | http://openlaszlo.org |
| - Bla-bla List | Secure, simple, sharable to-do lists in OpenLaszlo and RIFE | http://blablalist.com |
| - Bamboo | Standalone and embeddable RIFE forum module | https://bamboo.dev.java.net |
| - Elephant | Standalone and embeddable blog module written in RIFE | https://elephant.dev.java.net |
| - Drone | Information bot written in RIFE | http://drone.codehaus.org |
| - JHighlight | Embeddable pure Java library for syntax highlighting | https://jhighlight.dev.java.net |
| - JavaPaste | Pastebin with highlighting, diff and image uploads | https://javapaste.dev.java.net |
| - Gentoo Linux | Extremely customizable Linux distribution | http://www.gentoo.org |
| - RelativeLayers | DHTML content development library | http://uwyn.com/projects/relativelayers |
| - QtUnit | Software development testing framework | http://uwyn.com/projects/qtunit |
| - Fm | Desktop file manager | http://uwyn.com/projects/fm |
| - TinyQ | C++ console development library | http://uwyn.com/projects/tinyq |
| - NATW | Community website for ideas exchange | http://thunderstorms.org/NATW |
| - Ear Trainer | Amiga ear training application for musicians | available on http://www.aminet.net |
| - Bagheera | Next-generation package manager | http://uwyn.com/resources/bagheera_design.txt |
| - GClipper | Gtk+ clipboard manager | |

Articles and books

- The Eigenharp Alpha after 3 months <http://tinyurl.com/eigenharp-alpha-review>
- The Definitive Guide to Terracotta <http://apress.com/book/view/9781590599860>
- X-Develop and CodeGuide Review http://www.theserverside.com/reviews/thread.tss?thread_id=42457
- Sams : GTK+ Programming in 21 Days <http://www.omartin.com/INC/GTK/>
- Uwyn's C++ Coding Standard http://www.uwyn.com/resources/uwyn_cpp_coding_standard

Awards

- Sun Java Champion <https://java-champions.dev.java.net>

Interviews

- Java Champion Interview: RIFE & Terracotta <https://java-champions.dev.java.net/content/JCLibrary.html>
- Artima Developer : Continuations in Java <http://www.artima.com/lejava/articles/continuations.html>
- Artima Developer : The Philosophy of RIFE <http://www.artima.com/lejava/articles/rife.html>
- InfoQ : RIFE 1.5 release <http://www.infoq.com/news/RIFE-1.5-Released>
- TheServerSide Tech Talk : RIFE http://www.theserverside.com/news/thread.tss?thread_id=42546
- eWeek : Open-Source Development Frameworks <http://www.eweek.com/article2/0,1895,1943809,00.asp>
- Java Posse : Interview http://javaposse.com/index.php?post_id=72112

Conferences Talks and Presentations

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| - Scaling Your Cache & Caching at Scale | JavaEdge | November 2009 |
| - Three Techniques for Database Scalability | SpringOne Europe | April 2009 |
| - Bytecode Manipulation in the Real World | JavaZone | September 2008 |
| - Boldly Go Where the Java Language Has Never Gone Before
JVM Clustering in the Real World | TSSJS Prague | June 2008 |
| - OpenLaszlo, From RIA to Ajax and Mobile | JavaPolis | December 2008 |
| - RIFE BOF | QCon SF | November 2008 |
| - Boldly Go Where the Java Language Has Never Gone Before | JavaOne | May 2008 |
| - Terracotta in 10 minutes | Fosdem | February 2008 |
| - Cutting-edge productivity with RIFE and Web Continuations
Exploring Terracotta - JVM clustering in the Real World | No Fluff Just Stuff | August 2007 |
| - Cutting-edge productivity with RIFE and Web Continuations | TSSJS Barcelona | June 2007 |
| - Cutting-edge productivity with RIFE and Web Continuations | TSSJS Las Vegas | March 2007 |
| - Web Continuations,
Rails-like productivity with RIFE,
Direct Web Remoting (DWR),
Dynamic Languages on the Java Platform | JavaPolis | December 2006 |
| - RIFE | Øredev | November 2006 |
| - Cutting-edge productivity with RIFE | EuroOSCON | September 2006 |
| - Cutting-edge productivity with RIFE | JavaZone | September 2006 |
| - Dive into RIFE,
Flow with Continuations | TSSJS Barcelona | June 2006 |
| - Cutting-edge productivity with RIFE | JavaOne Afterglow | June 2006 |
| - Cutting-edge productivity with RIFE | JavaOne | May 2006 |

- Dive into RIFE, Flow with Continuations TSSJS Las Vegas March 2006
- Introducing RIFE agile Java web development Fosdem February 2006
- RIFE in Action JavaPolis December 2005
- Modern web application development in Java with Web Continuations JavaPolis December 2005
- Quickly building modular and maintainable applications with RIFE EuroOSCON October 2005
- The server-side architecture behind OpenLaszlo application Java In Action October 2005
- Modern web application development in Java with Web Continuations Fosdem February 2004
- Benefits of Gentoo Linux BxLUG April 2002

Music

- Solo singer-songwriter for many years, regular gigs in local pubs and bars playing original music.
- Recorded my CD 'Dream Like a Tree' in auto-production with some well known Belgian session musicians.
- Created the band 'Flytecase' which is gigging at a rate of a few concerts per month all over Belgium.
- Learning to play revolutionary new instruments like the Eigenharp, the Haken Continuum and the iPad.
- Teaching myself audio engineering and mixing, recording the début album of Flytecase at this time.

Education

- Mostly self-taught.
- Two years of full-time jazz guitar, singing and theory training *Jazz-studio, Antwerp*
- 1st and 2nd year of Architecture *Sint-Lucas, Brussels*
- Classical (secondary scientific A) studies *Jan-Van Ruusbroeckcollege, Laken*
- 7 years of classical music theory and practice *Music academy, Brussels*