

Skills Summary

Alain Graf

Senior Consultant

Email: alain.graf@graf-tec.ch

Mobile: +41 (0)79 578 79 01

Date of Birth: 12/04/1971

Marital Status: Married

Nationality: Swiss

Languages: French, German, English

Summary

Alain Graf is a senior consultant with proven experience in architecting and implementing engineering solutions to complex customer problems. He has in-depth know-how in designing and developing distributed, transactional object-oriented and component-based frameworks and applications. This experience is based on industry standards such as JEE, XML and CORBA.

He has specialized know-how related to the development of scalable, high availability, large-scale systems. Also he has extensive knowledge in building and designing secure distributed systems executing across multiple layers and platforms.

Technical Capabilities

<i>Middleware:</i>	J2EE:	WebLogic Websphere JBOSS Tomact
	Messaging:	Websphere MQ
	Web Services:	JAX-RPC, JAX-WS, JAX-RS, Axis, SOAP-UI
	Security:	TLS, JSSE, SSO, RSA, Entrust, Spring Acegi, JAAS
<i>Base Systems:</i>	OS:	Solaris, Linux, Windows, OSX
	Networking:	TCPIP, HTTP, IIOP, LDAP
<i>Database:</i>	Oracle:	8i – 11g
	MySQL:	Version 5.x
	MongoDB:	3.2.x
<i>Development:</i>	Languages:	C/C++, Java, JavaScript, Perl, Python, Unix shells
	Java:	EJB, RMI, JNDI, JMS, JSEE, JSF, Swing, Servlets, JSP, Struts, JMX, log4j, IntelliJ, Eclipse, Spring, Hibernate, Toplink
	Web:	NodeJS, mongoose, AngularJS, mocha, json, ExpressJS, gulp, Ionic
	XML:	SAX, DOM, XPath, XSLT, XSL-FO, JAXP, XML-Spy, XQuery
	UML:	Enterprise Architect, Together Architect
	Build:	Ant, Maven, CVS, Subversion, Git, npm
<i>Test / Monitoring:</i>	Performance:	JMeter, Loadrunner, JProbe, Yourkit
	Monitoring:	Wily Introscope

Consulting Positions

November 2013 - present

Employer Graf Technologies
Client SBB
Project POLAR
Position Senior Software Engineer
Software Java 1.7., Maven , Websphere 8.5, Toplink, Oracle 11, JAXB, JMS, WebServices
Operating System Windows, Linux

Design and development of a new System for planning, ordering resources and controlling capacity of transports of merchandises. This application is one of the central tool used by SBB Cargo for Daily Business. The challenge was here to build a system which centralize the data of all business department as well as interacting with other applications to exchange information

October 2012 - Oktober 2013

Employer Graf Technologies
Client SBB
Project NAPUR
Position Senior Software Engineer
Software Java 1.6., Maven , Websphere 8, JSF, EJB3, Spring, Hibernate, Oracle 11
Operating System Windows, Linux

NAPUR(Neuaustrichtung Platzbewirtschaftung und Reservation)

Conception and realization of a web Application that to centralize places reservation a and as optimization of the train occupancy. The application interact with other application using different protocol like SOAP or JMS.

June 2010 - September 2012

Employer Graf Technologies
Client Postfinance
Project Gatekeeper
Position Senior Software Engineer
Software Java 1.6., Maven 2, Weblogic 10.4, Spring 2, spring integration, Hibernate, Oracle 11
Operating System Windows Vista, Linux, Solaris

The Gatekeeper is Service Bus with extended functionalities which were specially designed for Postfinance's Monex Laundering department. The Application support many communication protocols like JMS or SOAP to connection sender and receiver services together. Every messages sent over the Gatekeeper is logged into a database for reuse or control. In case of error the messages can be resend to the destination application.

June 2009 - June 2010

Employer Graf Technologies
Client Swiss Re
Project RATOS
Position Senior Software Engineer
Software Java 1.5., Maven 2, RAD7, Spring, Hibernate, JBPM, Websphere 6.1, Oracle 9i .
Operating System Windows XP, Linux, Solaris

RATOS is an integral part within Swiss Re's service oriented pricing tool landscape. It is a server-side application that acts as a service provider specially for massive calculations (for example Natural Catastrophe Loss Simulations).

November 2005 - April 2009

Employer Graf Technologies
Client SBB
Project POLAR (Plan Order Load and Resource)
Position Senior Software Engineer/Architect, Development team lead
Software Java 1.5., Eclipse RCP, GEF, Toplink, Websphere 6.1, Oracle 9i .
Operating System Windows XP, Linux, Solaris

Design and development of a new System for planning, ordering resources and controlling capacity of transports of merchandises. This application is one of the central tool used by SBB Cargo for Daily Business. The challenge was here to build a system which centralize the data of all business department as well as interacting with other applications to exchange information.

November 2006 - February 2008

Employer Graf Technologies
Client Novartis
Project HTL Processor (High throughput Laboratory)
Position Senior Software Engineer
Software Java 1.5., Eclipse RCP, POI, MDB
Operating System Windows XP, Linux, Solaris

Design and development of an application to process, convert and export measurements data files for High Throughput laboratory purpose. The first prototype was developed very quickly within approximately one month. The requirements have been directly discussed with Novartis. This application is principally processing raw data coming from different measurement systems into one standard format. All these data can be exported at any time into one access database file (MDB) which is then read by Spotfire to evaluate the results. Since the first release, this application is periodically updated with new functionalities.

August 2005 - October 2005

Employer Graf Technologies
Client Credit Suisse
Project BOS (Batch Ordering System)
Position Senior Software Engineer
Software Java 1.3., Struts 1.1, JSP, JavaScript, Java Servlets, HTML, JDBC, Oracle, Weblogic 6.1 .
Operating System Windows XP, Solaris

Design and development of new functionalities.
 Analyse of the effect that the Failover mechanism might have on the Application.

February 2004 - August 2005

Employer Graf Technologies
Client Credit Suisse
Project JAP
Position Senior Software Engineer
Software Java 1.3.1, Struts 1.1, EJB 1.1, Weblogic 6.1/8.1.
Operating System Windows NT/2000/XP, Solaris

JAP is a set of technical components, operations and development process, architectural standards and guidelines serving as a common basis to develop, deploy and operate a number of similar applications freeing the single application from concerns not directly related to the application logic.

This position consist of:

- supporting application using JAP components in the development and deployment phase.
- Component bugs fixing.
- Components extension.

June 2003 – January 2004

Employer	Harvey Nash
Client	GFT Technologie / Prevista
Project	NAP
Position	Senior Software Engineer
Software	Java 1.4, Struts 1.1, log4j, JSP, EJB 2.0, Oracle 9i, Weblogic 8.1, Rational XDE Professional 2.1.
Operating System	Windows 2000, Solaris

NAP is a new platform for a company managing life insurances and other kind of Precaution Account. This company is a service company for insurances and banks to offer, conclude and administrate these kind of Products.

The development process is made like define by the Rational Unified Process (RUP) using Ratioanl XDE Professional for the design.

In the project I have been in charge of the Business Layer and the Persistency Layer. The Business Layer is constituted of a Facade of Session Beans and the Persistency Layer is constituted of Entity Beans using Container Managed Persistency.

For some performance issue we also use JDBC from Session Bean. Other features of Weblogic like caching are also used.

April 2003 – May 2003

Employer	BPD Consulting
Client	Credit Suisse
Project	BOS (Batch Ordering System)
Position	Senior Software Engineer
Software	Java 1.2 / 1.3., Struts 1.0, JSP, JavaScript, Java Servlets, HTML, JDBC, Oracle, Weblogic 6.1 .
Operating System	Windows 2000, Solaris

Design and development of the BOS application.

For this Project I was responsible to design and develop the main application components that the other developers may be able to finish the development with a minimal support from my part.

March 2003 - March 2003

Employer	BPD Consulting
Client	Credit Suisse
Project	JAP Core Framweork
Position	Senior Software Engineer
Software	Java 1.2 / 1.3., Junit, Java Servlets, HTML, Weblogic 6.1, XML.

Operating System Windows 2000, Solaris

Design and development of testing framework based on Junit and JunitEE.

August 2002 – Januar 2003

Employer Aseantic-Liebhart GmbH
Client Credit Suisse
Project Document Helper
Position Senior Software Engineer
Software Java 1.2 / 1.3. Java Servlets, HTML, UML, Weblogic 6.1, XMLSpy.
Operating System Windows 2000, Solaris

Design and development of a document generator in java. The document helper provides the possibility to create and generate documents from a java application. In this project I was responsible of the design and development as well as for the project management. The Document Helper is now released and used within various projects within Credit Suisse and therefore I am now responsible for the production support and maintenance. For this project the following technologies were used:

- XML Schema
- XSL-FO
- JAXP
- SVG
- FOP
- Xerces

April 2002 – August 2002

Employer Liebhart Systems
Client Credit Suisse
Project GUTower
Position Senior Software Engineer
Software Weblogic 6.1
Operating System Windows NT, Solaris

The GUTower project is an architectural project for all j2ee application used in the Credit Suisse. One part of this project defined the Credit Suisse Tower Framework as the standard supported framework for Intranet and Internet solutions. I was responsible for the analysis and modifications needed for Tower Framework to run under Weblogic 6.1 . I also helped with the migration of applications that needed to meet the GUTower needs.

February 2001 – April 2002

Employer Liebhart Systems
Client Credit Suisse
Project Tower Framework
Position Senior Software Engineer
Software Java 1.2 / 1.3, Java Servlets, HTML, UML, Weblogic 6.1, Tomcat
Operating System Windows NT, Solaris

The Tower Framework is a Servlet Framework developed in the Credit Suisse. I was involved in the design of the framework. I also designed and developed parts (modules) of this framework e.g.

- Logging (log4j integration).
- Struts Integration.
- Expiring cache.
- EJB integration (EJB locator and jndi lookup integration)
- Security integration.
- User Agent.
- Java Corba Bridge

During this time I was in charge to lead a Development Team of five developers.

January 2001 – February 2001

Employer	Liebhart Systems
Client	Panalpina
Project	Pantrace
Position	Senior Software Engineer
Software	C, Oracle 8i
Operating System	Solaris, Windows 98

Pantrace is a tracking system developed for Panalpina. I was responsible for the integration and the support during the application installation and testing phases. Because of problems during integration, I was asked for support because of my knowledge in C and Unix systems.

January 2001 – February 2001

Employer	Liebhart Systems
Client	Liebhart Systems
Project	Client Report Systems
Position	Senior Software Engineer
Software	Perl, Sendmail
Operating System	Linux

In this project I had to develop an internet report system for client using our product. This report is based on the following technologies:

- HTML
- Javascript
- Perl
- Sendmail
- Apache
- Bugzilla

September 2000 – January 2001

Employer	Liebhart Systems
Client	Credit Suisse
Project	PROFIS
Position	Senior Software Engineer

Software Java1.2, CORBA, Oracle 8i, Weblogic 5.1
Operating System Linux, Solaris

PROFIS was dedicated for the calculation of trader provisions. In this project I was responsible for design and prototyping. This project was based on a multi tier architecture and required technologies such as:

- Enterprise Java Beans
- JDBC
- CORBA
- Servlet
- Security integration

Prior Positions

August 1998 – September 2000

Employer	Alstom Power
Position	Software Engineer
Software	Visual Studio 6.0, C, C++, MFC, Visual Basic, Java

Graf Technologies GmbH
Blumenstrasse 23D
CH-4102 Binningen

Alain Graf
alain.graf@graf-tec.ch
+41 (0)79 578 79 01

Operating System Windows 95, Windows NT

Development of a monitoring system for a power generator. The project goal was to implement a full monitoring system of a power generator by analysing values like vibrations, gap, temperature etc. Through the analysis of these values it was possible to define when the generator had to be stopped for revision. The same analyse was used to stop the generator if any alarm level was raised. All data were saved in an Oracle database so that the history of all collected values could be analysed. I was responsible for the measurement and value analysis within the project. The measurement was done with a DSP board which communicated with a Windows 95 client. After data computing and analysis the values were sent to a central server application through tcp/ip. The DSP software was written in Ansi-C and the Windows client in C++/MFC. All the visualisation part was developed in Visual Basic.

October 1996 – August 1998

Employer Micro Crystal (Swatch Group)
Position Development Engineer (Hardware & Software)
Operating System Windows 95

Development of high precision Quartz oscillators.
 Development of a measurement system for high precision Quartz oscillator.
 Development of special hardware for measurement.

November 1994 – October 1996

Employer MEF SA
Project Various
Position Development Engineer (Hardware & Software)
Software / Tools Turbo Pascal, Assembler
Operating System Windows 3.x, DOS

Work on an automation system used by Sony Italy for production of audio tape. The main work was done in assembler, we also developed our microprocessor board for the control of the robot. I was also involved in development of a software that controlled the production cost and time in a mechanics firm.