

OBJECTIVE

To apply my professional and technical experience and skills to design, implement, and deliver solutions for the needs of my customer or employer. Seeking a position either as developer, or as a technical lead with active involvement in the implementation cycle, in a variety of technologies and environments (web, mobile, client-server, C++/Java, ...).

EXPERIENCE SUMMARY

- Two years experience as a technical lead, designing software and processes, managing a team of developers and collaborating with multiple players internally and with the customer.
- Over 5 years experience in web-application design, development and customization.
- Over 10 years total experience in object-oriented software design and development.
- 6 months experience in mobile development (Android, iPhone), as a hobby.
- Excellent written and verbal communication, troubleshooting and problem-solving skills.
- Independently motivated, yet enjoy collaborating with a variety of people with different backgrounds and perspectives on a given project

TECHNICAL SKILLS SUMMARY

Languages: Java, C++, XML, SQL, Shell scripting, JSP, Perl, Beanshell
Type of development: Web-based (servlet/jsp), thick client (Swing GUI), Visual C++, client-Server architecture, scripting, database (JDBC), CORBA, JNI, network (SNMP)
Databases: Oracle, MySQL
Tools: Eclipse, Ant, Make, CVS, Perforce, ClearCase/ClearTool, SVN, Rational Rose, Gdb, PVCS, Firebug
Environments: Tomcat, WebLogic, Apache
Operating systems: Unix (Linux, Solaris, FreeBSD), Windows
Concepts: Object-oriented design and architecture (OOD/OOA), design patterns, refactoring, optimization, internationalization (i18n)
Web: HTML, CSS, PHP, Javascript. Basic knowledge of: Flash, Drupal, Joomla, Boonex Dolphin, Magento, AJAX, JQuery, JSON
Hobbyist experience: Mobile development (Android, iOS), XWindows development (Qt/GTK), OpenVMS, Visual Basic

LANGUAGES

- English: native language
- French: fluent
- Spanish: excellent written skills, good spoken skills

EMPLOYMENT HISTORY

October 2006 – February 2011 (4.5 years)

Senior consultant, Ariba.

Ariba provides software and services to improve the procurement process.

Designed technical specifications for software customizations, and implemented them or managed a team of developers to implement them. Designed and managed processes involving tasks from multiple players, for major version upgrades/migrations. Estimated workload and project timeline. Worked with various teams (support, functional experts, developers, application administrators) in multiple countries to achieve customer's goals. Delivered technical training to enable customer to implement customizations. Worked with a variety of customers having different skills and knowledge of Ariba software.

Customers: RTE, Société Générale, BNPP, Pierre et Vacances, France Telecom, AXA, Alstom, Airbus, Sanofi Aventis

Environment: Java, JSP, WebLogic, XML, JDBC, Eclipse, CVS, Perforce, ClearCase, ClearTool, Jdom/Xerces, Excel, MS Project, HP Quality Centre

November 2004 – October 2006 (1 year, 11 months)

Consultant, ESR Consulting, at customer's (RATP) site

The RATP manages the public transport system (subway, buses, trains, tramways) at Paris. The SIT-ISV-CDP department develops network management software to manage the metro and train station equipment.

Developed on the core AGS server-side software (Train and metro station equipment architecture). Developed thick client (GUI) applications. Integrated and validated software developed internally and externally. Refactored and optimized existing software. Designed and implemented test case scenarios. Documented software APIs.

Environment : C++ (Unix and Visual C++), Java, JNI, JavaBeans, Unix (Linux, Solaris), GCC, GDB, CVS, CORBA, SNMP, XML, Ant, Shell, UML, Rational Rose

June 2003 – February 2005 (1 year, 9 months, part time)

Consultant, Network Equipment Technologies (Net.com)

Net.com develops multiservice broadband (Scream) and narrowband (Promina) networking devices, as well as network management systems.

Developed, troubleshooted and customized the Micromuse network management system (NMS) for the specific needs of net.com. Created functional and technical design specifications.

Environment: J2EE, Java, JSP, Servlets, Tomcat, XML (JDom, Xerces, Castor), XSL/T, CORBA, SNMP, SQL (Oracle, MySQL), ILOG JTGO, Windows, Unix (Solaris), Ant, Shell, Javascript, CVS, ClearTool

November 2000 – December 2002 (2 years, 1 month)

Software Engineer, Formerly Lumos Technologies, acquired by IBM, Santa Monica, CA.

Lumos developed software for telecommunications operators, to manage network equipment that uses the TL1 and SNMP network management protocols.

Developed and documented the core software, customized the software for specific customer needs, prepared and assisted in pre-sales demos.

Environment: Java, J2EE, GUI (Swing), JSP, Servlets, Tomcat, C/C++ (Visual C++), XML (JDom, Xerces), CORBA, Beanshell, Windows, Unix (Solaris), UML, Ant, SNMP, TL1, Shell, RMI, SQL (Oracle, MySQL), CVS, Design Patterns

May 2000 - October 2000 (6 months)

Software Engineer, Homepage.com, Los Angeles, CA

Homepage.com provided corporate homepage services, including personal and e-commerce website building tools and ad targeting, to increase clients' traffic and customer retention.

Customized the software for specific customer needs, developed new modules to the core software, developed and improved build tools. Collaborated across different teams.

Environment: BSD, Perl, Apache, C, XML, Javascript, HTML, Python, CVS

December 1998 - October 1999 (11 months, part time)

Java/Perl Programmer, Football.com, Irvine, CA

Football.com provides news and entertainment regarding American football (NFL and college) and international football.

Developed an applet Mah Jong game, developed web-based front ends for administration tools.

Environment: Linux, BSD, MySQL, Apache, Perl, Java, Javascript, C, HTML, MIME, UUEncode and BinHex encoding

PUBLICATIONS

- Carmen Alvarez, Philippe Langlais and Jian-Yun Nie (2004) "*Word Pairs in Language Modeling for Information Retrieval*" in 7th Conference on Computer Assisted Information Retrieval (RIAO) Avignon, France, April 26-28, 2004, pp. 686-705
- Carmen Alvarez, Philippe Langlais and Jian-Yun Nie (2004) "*Mots composés dans les modèles de langue pour la recherche d'information*" in 11^e édition de la conférence sur le Traitement Automatique des Langues Naturelles (TALN), 19-22 avril, Fès, Maroc, pp. 11-16

EDUCATION

University of Montréal

June 2004, Master of Science in Computer Science (Informatique)

Thesis subject: Language Modeling in Information Retrieval

Developed search algorithms, using C/C++, Perl, SRILM, Lemur, Shell, Linux, Latex

Presented research project to students, faculty, and the RIAO conference in Avignon, France

California State Polytechnic University, Pomona

June 2000, Bachelor of Science in Computer Science, Summa Cum Laude

June 1998, Bachelor of Science in Civil Engineering, Summa Cum Laude

HOBBIES

- Music: composition/arrangement and performance using various instruments: clarinet, flute, saxophone, guitar, piano: <http://www.youtube.com/user/carmen75013>
- Bicycling (leisurely)