

Fredrick Simonet

TECHNICAL QUALIFICATIONS:

Languages	Java, J2EE, Java Server Page (JSP), Servlets, Enterprise Java Beans (EJB), Java Messaging Service (JMS), Message Driven Bean (MDB), Java Native Interface (JNI), Simple Object Access Protocol (SOAP), DHTML, HTML, XML, JavaScript, C, C++, Awk, Korn shell
Software	Tomcat, Active MQ, Struts Framework, Spring, Hibernate, Ajax, Direct Web Remoting (DWR), Apache, BEA Weblogic, IBM Webshpere, SonicMQ JMS Server, Oracle, PostgreSQL, Netscape iPlanet, Vignette, Java Development Kit, Borland JBuilder, Macromedia Dreamweaver, Allaire Homesite, Sparc Works, Common Desktop Environment (CDE), Microsoft Office, Microsoft Visual C++ and Basic
Networking	JSP, Servlets, EJB, MDB, JMS, TCP/IP, Client/Server Architecture, Common Gateway Interface
Operating Systems	Linux, Solaris, HP, Windows XP/Vista/7
Accomplishments	Innovative Emergency Management Employee Appreciation Award, 2008 Urban and Regional Information System Association (URISA) Distinguished Enterprise System Award for WebPuff, Bell Laboratories President's Silver Award Winner, Technical Employees' Resource Network Technical Excellence Award Recipient, Lucent Technologies Certified Recruiter
Certifications	BEA Certified Specialist: Server 7.0 – 2002 Sun Certified Programmer for the Java 2 Platform – 2000

PROFESSIONAL EXPERIENCE:

Innovative Emergency Management, Baton Rouge, Louisiana

2004-Present

Java Architect/Technical Lead for a comprehensive web-based emergency management dispersion model and decision support system (WebPuff) designed to aid in planning for, responding to, and recovering from a chemical incident implemented in Java. WebPuff is implemented with JSP, Struts, Spring, Ajax, DWR, Hibernate, JMS, XML, JNI, PostgreSQL, and C++. My role on this project is:

- Responsible for the overall architecture of the product, creating the high level design of the features to ensure consistency in the products, and solving all technical issues.
- Working with the customer and other team leads to define the scope of the features to ensure they meet the customer's needs and are accomplishable within the contracted time.
- Creating and managing a project plan for the software development and responsible for scheduling tasks for the developers and preparing and reporting status at the weekly customer meetings.
- Designed and implemented a secure server-to-server communication framework using secure sockets.
- Created a Java Native Interface framework to integrate with the C++ computational modules, which is used by the WebPuff project.
- Porting the Microsoft Visual C++ computational model from the Windows platform to Linux and Solaris using make and GCC.
- Maintain the development and build environment for the computational model for Linux, and Solaris

Project Manager/Technical Lead to manage the complete life cycle for a customization of the WebPuff web application for a Department Of Defense depression model verification agency. My role on this project was:

- Negotiated with the customer to identify the maximum customizations for the budget.
- Created and managed the MS Project plan to ensure an on time, high quality delivery within the allotted budget and time.

Java Architect for a Java-based emergency management Decision Support System (DSS) of tools designed to help emergency operation center teams manage the relocation and reentry of the general public after an emergency. DSS is implemented with JSP, Struts, Hibernate, JMS, XML, JNI, PostgreSQL, and C++. My role on this project was:

- Created and implemented the architecture and design of the DSS.
- Designed and developed the secure, reliable, and auditable custom server to server protocol for transmitting data between installation of the DSS and WebPuff.
- Created the JSP graphical user interface framework for the WebPuff project.

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- Designed and developed a security module for the FEMA DRS project which managed user's access to the functions and validated data.

Ship Analytics, North Stonington, Connecticut

2003-2004

Senior Java Developer for a Java based emergency management suite of tools designed to help emergency operation center teams administer coordinate responses during any emergency situation ranging from an accident to a terrorist threat. The system provides a web based user-friendly intuitive interface to complex relational databases, a geographic information system (GIS), and scientifically developed fate and trajectory hazard models, while facilitating critical real-time data exchange between these components and all of its intranet and internet nodes. My role on this project is:

- Designing and implementing a SOAP based integration framework to prove a mechanism for collaboration with both intranet and internet installations.
- Porting the existing windows based application to a Java based web application utilizing JSPs, Servlets, Struts and JavaScript.
- Serving as the company's technical representative to a cross company standards consortium to develop interoperability standards for the emergency management industry.
- Designing and implementing the XML messaging standards developed by the emergency management consortium and integrating it into the system.
- Serving as the technical representative at sales meetings, product demonstrations, and trade shows for interoperability with third party systems and the web based system.
- Technical mentor for the junior Java developers by leading technical talks, design sessions, and code reviews.

Kinetrix Solutions, Hartford, Connecticut

2002-2003

Software Architect/Team Lead for a J2EE compliant middleware framework that employs XML messaging between disparate applications via synchronous and asynchronous processing. The integration framework routes bi-directionally among a limitless number of applications such as client/server, CRM, ERP, mainframe, and more. It also offers a layer of security against intrusion, administrative tools, 99.999% guaranteed persistence for all messages, and fully audited and 21 CFR part 11 compliant. This framework is currently used to integrate PeopleSoft, a Microsoft Visual Basic based Weigh and Dispense system, and an Oracle Forms based Warehousing system. My role on this project was:

- Creating the J2EE architecture and design of the framework which utilize JSPs, Servlets, EJBs, MDBs, and JMS running on clustered Weblogic environment.
- Working with the customer and other systems representatives to define the project scope, requirements and schedule.
- Defining all XML message definitions for both asynchronous and synchronous messages in conjunction with the other system team leads.
- Managing the time and assignments of the J2EE development team.
- Developing the core framework and the all components necessary for the PeopleSoft integration.
- Administering, configuring and tuning the Weblogic servers and clusters.
- Creating the software design documentation, integration contract document, installation documentation, and user training guide.
- Serving as a mentor for the J2EE development team.

Boldtech Systems, Dublin, Ohio

2001-2002

Internet Consultant for a multi-project, multi-vendor program to develop and sustain a web enterprise platform, delivering eCommerce-enabled telecommunications services ordering, provisioning, and customer self-service scalable to millions of residential customers. My role was to solve integration issue, support the application developers with builds, deployments, application architecture, hardware infrastructure, and application infrastructure. Work included:

- Developing a content management application following the extreme programming methodology on the Vignette Content Suite, Netscape iPlanet, BEA Weblogic, and Jakarta Struts framework on a Solaris platform.
- Managing system integration across organizations and existing legacy systems.
- Serving on the enterprising architecture team to resolve lab and production issues, planning for future expansions, and creating system wide policies.
- Managing environment resources for development, test and production during multiple simultaneous release cycles.

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Perficient, Austin, Texas**2000-2001**

Technical Team Lead in the Calico Practice Virtual Professional Services Organization responsible for deploying e-commerce solution using Calico's Market Maker framework. The end solution requires customizations and extensions to JSPs, Servlets, DHTMLs, and JavaScript. Work included:

- Formal training on EJBs, Visual Age for Java and Websphere via IBM classes, online courses, self-study and internal training projects.
- Serving as the technical expert for the Calico Japan office for five months in Japan. In this role I:
 - Created training material, which included sample code, Word Documents and PowerPoint presentations for the Calico Japan staff, their partners and Calico Europe office.
 - Provided solution of Market Maker shortcomings for Calico Japan Partners.
 - Mentored Calico Japan partners on customer engagements.
 - Developed customized Market Maker JSPs and Servlets for Calico Japan customers.
 - Lead the integration effort of Calico Market Maker and Advisor features.
- Working closely with the customer to Architect and Design a solution and resolve any integration issues with the customer's existing system.
- Setting up the production machines, which included installing and configuring Solaris, Weblogic, Oracle Enterprise Edition, Netscape Enterprise Server and Market Maker.
- Implementing the Anonymous Browsing feature to allow companies to browse catalogs without price sensitive data.
- Customizing the Look and Feel to meet customer's business model through screen branding and layout.

Lucent Technologies, Columbus, Ohio**1996-2000**

Graphic User Interface (GUI) Engineer on the Intelligent Network Service Management System (SMS) responsible for the web based GUI. Work included:

- Designing and developing the web based administration GUI for the SMS project. The GUI utilizes DHTML for the presentation of the data, JavaScript to add client side validation and behavior, Java Server Pages for server side rendering of the pages, Java for the GUI Data Servlet, and CORBA/Orbix Web for the communication to the SMS host.
- Lead GUI developer for release 02 responsible for resolving all requirements, architecture, and design issues and estimating the development effort.
- Developing a Java based form generator to produce JSP pages from Java classes and XML definitions that reduced the screen development interval by 80% and ensuring a uniform look and feel.
- Developing a form generator to parse dynamic service forms in XML format to JSPs ensuring a uniform look and feel.
- Promoting the new web base GUI to Senior Lucent Executives and customers through presentation, demonstration, and industry trade shows.
- Conducting training sessions for all new GUI developers on the architecture, design, web technology, and GUI development environment, creating a training video, and conducting Java Brown Bag training sessions for the entire SMS department.
- Proof of Concept of the GUI Architecture via developing prototypes of the GUI using an Applet, Internal Java GUI components, and Java Server Pages, then comparing the performance, reliability, stability, and maintainability with other prototypes using Active Server Page and Cold Fusion.

Software Engineer on the Network Fault Management system responsible for the Java based Graphics User Interface (GUI). Work included:

- Porting the graphics sub-system from Java 1.0 to Java 1.1 on both Solaris and HP platforms.
- Re-Engineering the Graphics Sub-system's event model, use of strings and sockets to increase the GUI performance by 60%.
- Engineering enhancements to the GUI that significantly increased the customer satisfaction.
- Concurrent Engineering of the Graphics Sub-system resulting in an 80% reduction of the modification request backlog and resolving beta troubles.

Software Engineer on a real-time billing system. Work included:

- Engineering and developing a Java based GUI prototype of a Customer Care and Bill Generation system utilizing TCP/IP socket to retrieve runtime data from the host and JDBC to interact with the Oracle database.
- Engineering the Service Creation Platform's Operations, Administration and Maintenance (OA&M) system including the Java based GUI to support the OA&M functionality.

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The Ohio State University, Columbus, Ohio

1997-1998

Instructor for "Programming in Java" night course during the winter and spring quarters. Work included:

- Designing the first ten-week lesson plan for 70 students covering Java basic, graphical user interfaces, exception handling, multithreading, multimedia, file I/O, and networking.
- Presenting lectures that included Microsoft PowerPoint slides and relevant examples to reinforce the subject.
- Developing assignments and administering tests to evaluate the students.

AT&T Bell Laboratories, Columbus, Ohio

1993-1996

Software Engineer for a manufacturing documentation processing system responsible for system engineering, designing and developing software enhancements for the Graphical Sub-system. Work included:

- Migrating the Graphical Sub-system code base, C, C++, and Korn shell, from SunOs 4.1.3_U1 to Solaris 2.3.
- Facilitating the porting of SCHEMA (the AT&T corporate graphics package) and its integration into Graphical Sub-system version 3.0, analyzing and leading the upgrade efforts of SCHEMA version 3.6 to version 4.0, working in close cooperation with the SCHEMA developers to resolve compatibility issues, and coordinating efforts with FOCUS-PRIME development to incorporate the revised graphics package.
- Coordinating the integration of the mechanical assembly data process into FOCUS-PRIME, serving as the primary customer liaison, organizing and performing demonstrations, and leading the development effort for the mechanical assembly data prototype.

EDUCATION:

Kansas State University, Manhattan, Kansas

Summer 1999

Masters of Science in Computer Science

Southern University, Baton Rouge, Louisiana

Fall 1993

Bachelor of Science in Computer Science