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## **SOFTWARE ENGINEER**

- Sr. Software Designer with more than 15 years experience in many software engineering areas and programming languages.
- Experienced in Object modeling, requirements analysis, database design, network. protocols and software configuration management.
- Java, J2EE, EJB, JDBC, CORBA and server side programming experience.
- Two software patents for Queued I/O design.

## **TECHNICAL SKILLS**

- Object modeling using UML and extraction of customer requirements into object models.
- Design Patterns, IDL, XHTML & Javascript programming, XML, Java and C++ programming.
- Distributed and parallel computing design including the use of CORBA, distributed processes, multi-CPU systems and network protocols.
- Agile development techniques, software development and configuration management including use of Eclipse IDE and Clearcase SCM tools.
- Java programming of server side functions, including J2EE, EJB, JDBC, transactions, threading and logging.
- Client side programming including XHTML, CSS and JavaScript. Use of Adobe CS4 Web suite of tools including Dreamweaver, Flash, Illustrator and Photoshop.

## **PROFESSIONAL EXPERIENCE**

HEWLETT PACKARD, Cupertino, CA

**Sr. Software Designer** 2002-2009

Worked on NonStop product line designing and implementing Java applications and enhancing the NonStop SQL product.

- Designed and implemented parts of the Real Time Information Director product. This infrastructure software provided a database abstraction to define customer 'documents' in Java and to store, retrieve and manipulate them without writing any SQL code. Participated in an XP development environment in this group with good results.
- Designed and prototyped a Content Management System (CMS) for the HP document library. This publishing application prototype was a multi-threaded Java application that read publishing meta data from a publishing system database, created XML documents from that data, then called on indexing and taxonomy modules to render HTML index and navigation pages for browser access to the library.

- Enhanced SQL runtime statistics for HP's Nonstop SQL distributed database by implementing new counters and views. Also maintained released code by finding, fixing and testing defects in existing code.

## COMPAQ COMPUTERS

**Sr. Software Designer** 1997-2002

Worked in the customer center working with customers to extract requirements, develop use cases, class and interaction diagrams for customer proposals. Led development teams to implement prototype applications and tools for those proposals.

- Designed object model and implemented prototype components of a mail message store system for Rockliffe's Mailsite product. The implementation was CORBA based and included servlets for web access to business logic and both Java and C++ servers for database access.
- Designed and developed object model and implemented the key component of a real-time ATM system that processed customer ATM transactions for a major South American bank. This process handled ATM transactions and presented bank offers to ATM customers according to certain rules and customer profiles.
- Designed and implemented several Java Servlets and EJBs to rapidly test new functions in an airline flight search database application for a major travel search customer. Each servlet provided HTML pages with input forms, setup and test buttons to execute various functions and results from the execution. The EJBs were stateless session beans that executed prepared SQL statements to access airline rules and schedules.
- Designed, implemented and tested TPCW Java Servlets and EJBs to measure Java performance on NonStop CORBA based servers. TPCW is a Web transaction benchmark using a storefront and shopping cart design. Shopping cart Java Servlets were deployed on UNIX servers for driving the shopping cart workload to the supporting CORBA EJBs and SQL database servers running on NonStop platforms. Loadrunner was used to simultaneously execute the shopping scenarios on the test servers and measure the responses.

## TANDEM COMPUTERS

**Sr. Software Engineer** 1987-1997

Worked on network system code and management applications for Tandem's distributed parallel processing computers.

- Designed and implemented both test and sample programs for the CORBA product. Programming was in IDL, Java and C++.
- Designed and prototyped shared memory queuing library (QIO) for network subsystems and applications to modularize and transfer network data efficiently within CPUs. Received two patents for the design that is still in use today for most of HP Nonstop protocol stacks.
- Designed and implemented Network Management application for Tandem's network subsystems.

## OTHER SIGNIFICANT EXPERIENCE

**Software Development Manager, NESTAR SYSTEMS**

**Section Manager, BRAEGEN CORP**

- Managed software development group responsible for network protocols and server software.

- Managed firmware and diagnostics groups responsible for implementing and testing IBM channel controller and network terminals. Designed and implemented network protocol software for controller-to-terminal communications. Implemented CPU micro code for IBM channel controller.

### **EDUCATION / PROFESSIONAL DEVELOPMENT**

MBA - University of Santa Clara, Santa Clara, CA

BSEE - Purdue University, West Lafayette, IN

Many internal Tandem/Compaq/HP classes in Java, SQL, Perl, Object Modeling & Patterns, Unix shell programming and administration, network protocols and software development.

BEA Weblogic training for developing, configuring and analyzing Weblogic applications.

Worked on several international standards groups including OMG and JIDM.

Coauthored a Payment Object Framework paper with Oracle for OMG submission.