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Qualification Highlights

- 10 years of software development in Java technologies experience using design patterns and strong object oriented analysis
- 5 years of SQL experience
- 4 years of agile and test driven development experiences
- 1 year of leading/mentoring experience
- Exceptional communication, interpersonal, problem solving, and leadership skills
- Energetic, loyal, and self-motivated team player/builder

Technical Experiences

- Java, J2EE, JSP, Servlets , JMS, JDBC, EJB 2.0, JMX
- JNI, C, C++, C#, VB .NET, VBA
- log4j, dom4j, Junit, Fitnesse, Ant, Maven, Perl, shell scripts, Autosys, internationalization-UTF-8
- JavaScript, HTML, XML/XSL
- Hibernate, Oracle, MySQL, SQL, PL/SQL, PostgreSQL
- Design Patterns, UML, OO design and analysis, agile, test-driven development, SDLC
- Calypso, Jboss, Apache Tomcat 5.x, life-ray portal, Apache HTTP Server
- CruiseControl, Intraspect, Hyperion, Bugzilla,
- Netbeans, Jdeveloper, Eclipse | Subversion, CVS, VSS
- Solaris, UNIX, Linux, Windows

Certification

Sun Certified Java Programmers (SCJP1.4) Sun Certified Java Programmers (SCJP1.6): pursuing	Sun Certified Developer for Java Web Services (SCDJWS): pursuing Certified Financial Analyst (CFA) Level I : pursuing
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Work Experiences

**Barclays Global Investors, San Francisco, CA**  
**06/09**

**02/07 –**

*Senior Software Engineer in Post Trade (Middle Office) of Hedge Fund Derivatives Platform*

- Designed and developed middle office enhancements and defects rectifications for the trade loading system on Calypso platform for various products such as CDS, CDS index, Swaps, Swaptions, FX Variance Swaps, Equity Variance Swaps, Bonds, Futures, Future options, TRS (total return swaps), NDS (non-deliverable swaps), Xccy swap (cross currency swap), FX and Equity options, Repos, OIS (overnight interest swaps), ZC (zero coupons) Swap, Collateral and cash management, etc in both RTF (run the firm) and BTf (build the firm) capacity. (Java, SQL, Calypso, Fitnesse, XML) Calypso trading system is tightly integrated with GXML for both publications and subscription. SWIFT and GXML messages generation and developed cash management reconciliation and reporting application.
- side projects using ruby on rail to implement a log monitoring and parsing report
- Production support (run-the-firm) of these products in regards to errors in booking, trade loadings, lifecycle events, messaging to counterparties and custodians, GUI, NPE (null pointer exceptions), and affirmation and confirmation messaging to DTCC and SwapSwire; as well as SWIFT messages to counterparties and custodians. In addition, addressed and resolved the various exceptions and errors from different components of the trade loading system: Calypso and BRSI (BlackRock Subscriber Integrator).
- Identify and amend application breaks due to mal-formed GXML documents (XML)
- Designed and Implemented fixes and test suites with Fitnesse on Calypso platform for different lifecycle events such as initiation, full/partial novation, full/partial termination. Utilized and implemented on Calypso additional requirements to counterparty email templates, scheduleTasks, trade lifecycle workflows, message workflows, and pnl (profit and loss) risk analysis reports (Java, Fitnesse).

- Automated trade reconciliation between trading systems, Aladdin, Gladis, and Calypso on Independent amount, cash collateral, etc. (Java, SQL)
- Added SQL implementations to backload/amend data on the Oracle backend to address production and retro-amend issues (SQL)

**Senior Software Engineer in Shared Services of Hedge Fund Derivatives Platform**

- Coached, mentored, and lead junior engineers and interns
- Defined, initiated, and managed resources for Streamline, a project to streamline the build, integration, and sanity test suites. Presented periodic reports on the progress of Streamline
- Identified, streamlined, and implemented improvements to current process with Java-based applications to promote consistency, reusability, efficiency, and traceability in an agile iteration-based manner
- Liaison and coordinated between various internal and external parties/internal groups/networks to address issues in performance, operations, and support
- Java performance tuning on both server and client side of Calypso trade loading system and JMX monitoring research for Calypso trade loading system
- Troubleshoot and debugged memory related issues in Calypso, a java application, using java profilers: jprobe and yourKit, and other java utilities: jstat, jinfo, jvmStat, jstat, jmap, jps, jsadebugd, jdb, jstack, jhat, and jconsole
- Researched 64bit JVM, JVM options, and tuned JVM for Calypso, hedge fund derivative platform, to address performance and stability issues.
- Established a protocol and implemented a set of interfacing utilities to enable HFDP to use Autosys for scheduling tasks with ease (Autosys)
- Designed and implemented utility to automate branching/merging/notifications/configurations for the codebase (ANT, DOS) and to automatically apply and package hot fixes to the codebase (ANT, UNIX)
- Established and implemented a one-stop portal that interfaces Shared Services and clients (HTML, Apache)
- Designed and developed Automation of build, package, and deploy process for Calypso trade loading system and its components: marimba (client), trade loading gateways and engines on Solaris (server), BRSI (adaptor component) on Solaris server (ANT, JAVA)
- Developed monitoring and self healing utilities for ERS windows services, Cruise Control on Solaris, and java processes running on both windows and Solaris (JAVA)
- Participated in Calypso and Calypso ERS core upgrades
- Contributed to evaluation and analysis of infrastructure hardware

**Department of Defense - Defense Manpower Data Center, Seaside, CA**

**08/06 - 02/07**

**Senior Software Engineer Consultant (Contractor)**

- Contributed to the service oriented architecture migration efforts from existing web applications. Prepared requirement, high level design, and low level design documentations for the legacy web application including use case and sequence diagrams. (UML)
- Developed security tools, password utility, base on specific requirements using UML and design patterns. (Java, design patterns, object oriented development)
- Mentored and advised on design approaches and technical implementations.

**Future US, South San Francisco, CA**

**05/06 - 08/06**

**Senior Software Engineer Consultant (Contractor)**

- Maintained, developed, and implemented new features for the flagship gaming website: gamesradar.com (servlet, jsp, jstl, JavaScript, tomcat, apache web server, Oracle stored procedure calls)
- Engaged in performance tuning for the website, including load balancing and memory management. (jprobe)

**IBM, Application on Demand Technologies, Cupertino, CA**

**11/05 - 5/06**

**Senior Software Configuration Management Consultant/Project lead (Release Engineering) (Contractor)**

- Supervised, managed, and coordinated with local and remote engineers to provide around the clock support
- Managed resources and reports from both India and U.S. to meet deadlines and implement new features requests for Insight, a build-and-integration project
- Responsible and accountable for the coordinated management

- Established rapport, and maintained communication with stakeholders with multiple internal groups
- Maintained continuous alignment of program scope with strategic business objectives
- Provided recommendations modify the program and process to enhance effectiveness toward business goals
- Contributed to Software Configuration (Change) Management and Release Engineering process for the product Isrvce, which is a portal to IT and assets management. Automated release and deployment.

### Education

Santa Clara University, Santa Clara, California

M.S. in computer engineering (software engineering and software security emphasis)

University of California, Berkeley, California

Santa Clara University, Santa Clara, California

B.S. in Computer Engineering

MBA Certificate, Indiana University of Pennsylvania, Pennsylvania

### Languages

Fluent in Mandarin, English