
Samir Shaikh

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SKILLS

- Object Oriented Middleware on JEE and C++ platforms.
- REST and SOAP Server and Client APIs on JEE.
- Database Stored Procedures and SQL on Informix, SQLServer, DB2, Sybase, Oracle, and MySQL.
- Load Balancers and App Servers: JBOSS, WebSphere, VMWare, F5, Tomcat.
- Performance Engineering and Automation scripts on HP LoadRunner platform, Client Quality Center.
- Technical Product specifications with Microsoft Project schedules.

SUMMARY OF QUALIFICATIONS

- 10+ years experience in commercial software engineering and technology management.
- 7+ years experience in performance intensive **Web** and **Private Cloud deployments**.
- 4+ years experience in **VoIP** Telecommunication and **Video / Audio** software products.
- **Online trading**, Multithreaded, highly concurrent, large data, scalable systems experience.
- Degree in Computer Science from a top university (summa cum laude); achieved several recognitions and awards.
- **Trained in leadership** using social styles suitable for excelling in new product innovations.
- Experienced with a multitude of technologies including: **Spring, Hibernate, HP Loadrunner, Solr, Lucene, GWT, Tealeaf, Cisco Router Media Service (RMS), Cisco LMR (Land Mobile Radio)**, Cisco SRE Modules, Cisco Unified IVR, Cisco Unified Contact Center Express, CTI, Java Concurrant, Python, jBPM, JBoss Rules, JBoss Seam, JBoss ESB, iText, SIP, Eclipse, Axis2, **Tomcat, JUnit, JMS, JAXB, XML, RESTeasy, JSON, EJB3, JDBC, AJAX**, Codecs (H264, MJPEG), Wowza Restreaming server, Javascript, SmartGWT, JSF, Cricket, IBM RAD7, Clearcase, UCM, Clearquest, Ant, Maven2, Subversion, Visual Source Safe, VoIP (JTAPI), Savan, Splunk, and more.

WORK EXPERIENCE

Feb 2009 – present; Independent Software Consultant; San Francisco Bay Area, CA.

Assignment #1: Senior Engineer Mobile, Cloud & Perf; **Cisco Systems**. Changing the way we live, work, and learn

- Worked on Cisco's IPICS Video, Phones, Wireless, and Radio based Collaboration System for the public safety industry. The product achieved distinct recognition within Cisco and in the market place and motivated buyers to assign their budgets prior to product release.
- Designed and Implemented Top-down and Bottom-up RESTful Web Services using JBoss RESTeasy framework and Apache Axis2. Helped design the interface which supported multipart input as well as xml and over GET, POST, PUT and DELETE. XML and JSON response formats are also supported. Results: Delivered a robust, high performance, video, photo, and text upload component used by thick clients and mobile clients.
- Led the load testing and load qualification effort of the application for a major release. Used tools HP Load Runner to apply load and monitor system activity, and JMX based tools to profile applications and get visibility into problem areas. Results: Improved system efficiency, root caused faults, and brought it into shippable condition.
- Implemented features in an IVR system that invites and notifies users of the IPICS system of certain events and enables them to join the system using their phones. Wrote CTI modules such as Cisco Contact Center IVR scripts on Cisco UCCX.
- Evangelized, specified, and designed the Cisco WebEx Video Conferencing and Cisco IPICS integration.
- Evangelized, specified, and designed the Cisco IPICS Cloud offering.
- Writing two Push-To-Talk Radio technology patents.
- Won lavish praise from the management during the entire course of engagement.

Assignment #2: Chief Technology Officer; **SlabTile.com**. An online building materials shopping engine.

- Designed and Implemented a B2C and B2B Cloud servers based on open source Java technologies such as JBoss ESB, JBoss Seam, JBoss jBPM, and JBoss Rules that store and render content, rates, process payments, notify customer, and notify vendors.
- Led a team of 3 engineers to implement a shopping engine for the B2C business model. Implemented:
 - Designed and implemented N-Tier architecture to render content and rates over Http to desktop clients and mobile clients.

- Shopping cart that holds product selections and gives client the ability to change their selection, pay a deposit, and confirm the order.
- Led a team of 3 engineers to deliver the Administration portal where vendors maintained their product offerings. Launched 4 vendors and maintained the uptime of the site at 98+% during prototyping.
 - Wrote module to store information, photos, and detailed descriptions and policy information.
 - Trained implementation specialists to enter products into the system at the vendor sites and in house.
- Led a team of 3 engineers to deliver an integrated CRM system for the company.
 - Wrote modules for invoices, sorting, balance, payments posting, transaction reporting. Generated PDF documents using iText libraries.
 - Wrote modules for payment processing for collections over the phone.
 - Wrote modules to automate billing and account management with customers and integration with their systems.
 - Wrote modules to provide business intelligence to Account Management team.
- Inventor on 2 patents filed by the company. Wrote detailed specifications of algorithms.
- Participated in pre-sales, helped with writing technology aspects of marketing collateral, and worked with vendors to adapt them to the technology.
- Wrote Unit Tests utilizing Mock libraries to test web application modules. Integrated these tests into the smoke testing environment to ensure code coverage on the build.
- Subject Matter Expert on competitive analysis of technology in terms of use, extensibility, and reach for the business' network.

Tools Used: Spring, Hibernate, Struts, Web 2.0 Google GWT, Velocity, JBoss Seam + EJB3 + JSF, JBoss jBPM, JBoss Rules, JBossESB, JBoss Tools (Eclipse), ImageMagick, JBoss Application Server, MySql, Red Hat Enterprise Linux, Subversion, Nvu, Ant, Maven.

Assignment #3: Subject Matter Expert; **WorldRes.com**. A leading online hotel distribution engine with over 70000 hotels worldwide. Key accomplishments:

- Successfully implemented the online booking engine web cloud's datacenter move project.
- Rebuilt the development and testing environments and Clearcase source control.
- Developed code to fix crashed in their C/C++ code base, improved stability of the system by 20% over 3 months.
- Tools used: Makefile, g++, vi, Visual C++.

Assignment #4: Sr. Software Developer (Web Analytics); **VeriSign Inc.**, The largest distribution network in the world comprising of billions of hits per day and owners of .com, .net, and SSL. Key accomplishments:

- Scrum Leader who ran team meetings and reported to management on team progress and updates.
- Root-cause, present, and fix high visibility customer problems that bring direct impact to company's bottom line.
- Tools Used: Tealeaf, Offermatica, Java, Javascript, Ajax, JBoss, Oracle, and shell scripting.

Assignment #5: Sr. Software Engineer; **SS8 Networks**. Legal Communications Intercept for Law Enforcement.

- Developed features on Intellego product that extracts, analyzes, and presents emails, audio, and video conversations of third party users.
- The system was built in on SmartGWT, MySQL, Solr, and Hibernate-Lucene platform running on JBOSS.
- Became the most sought after developer in a couple of weeks, provided technical leadership, and support.

Feb 2007 – Feb 2009; Distinguished Member of Technical Staff; AVAYA, Inc.; Milpitas, CA.

Avaya is a worldwide leader in telecommunication equipment and software services worldwide. The company has over 10,000 employees worldwide, and operates in over 15 countries. As a part of Avaya's **Unified Communications** that is responsible for improving user experience across Avaya's hardware and software product suite.

- Led development of a **Fixed-Mobile Convergence (FMC)** product jointly developed with Research In Motion. This solution was developed on Avaya one-X Portal's high-availability J2EE environment comprising **IBM RAD7**, **IBM WebSphere 6**, and **IBM DB2** on Windows and Linux platform.
 - Designed and implemented development infrastructure using Windows environment, Linux servers, release, and QA procedures.
 - Trained a team by presenting the new architecture to a technical audience and mentoring them to adopt the new framework.

- Wrote the Product Requirements Document and Architecture documents with RIM's Product Development and Technical teams.
- Successfully presented and socialized the SOAP Web Services based high performance messaging solution over SIP and HTTP running on a high-availability WebSphere Application Server 6 and DB2.
- Used Axis2 to implement One-Way, Request-Response, Event-Based, Synchronous, and Asynchronous messaging. Extensive use of different messaging standards: SOAP over SIP, WS-Eventing, WS-Reliable Messaging, WS-Addressing specifications and more.
- Used Maven to build Apache Savan module to enable Event-Based messaging in the system.
- Wrote and reviewed technology aspects of Avaya legal team's contract with partners.
- Designed and Implemented several enhancements to scale the system and achieve marketing targets.
- Designed product to work with SiteMinder and AppleSSO to provide Federated Single Sign-On functionality to integrate the web application with enterprise security.
- Led **J2EE development** of the award winning Avaya one-X® Mobile product that runs on **Windows 2003 Server** and **Microsoft SQL Server**.
 - Advised senior management's integration strategy of Traverse with Avaya's technologies. Introduced Service Oriented Architecture and Agile development process for the product suite and won recognition for substance and delivery. The product won the Product of the Year award in 2008.
 - Developed J2EE module using Spring, Hibernate, over Tomcat, and SQL Server.
 - Developed software to integrate software with Enterprise Directory Servers: Active Directory, Sun One Directory, and more using SSL and unsecure channel. This was done using spring-ldap.
 - Developed Axis2 based messaging between different application tiers including REST, XML-RPC, and Document Literal high performance web services.
 - Installed, configured, and developed software to work with Avaya Communication Manager, Cisco Call Manager, and Avaya Modular Messaging system. This was done using Java Mail.
 - Wrote a Technical White-paper detailing the different aspects of the application to be used by the sales and support organizations of the company.
 - Designed the build automation module using Ant and unix shell script that plugs into Clearcase and ClearQuest UCM.
 - Supported the product line with the business clients including Google, Apple, Kraft, Time Warner, etc.
 - Build Engineering role, coordinated releases, documentation, and delivery for System Verification.

2000 – 2007; Senior Engineer, WorldRes / Web Reservations (WRI); San Mateo, CA.

WRI a privately funded, profitable, and market leader in hostels and hotel reservations worldwide. It has over 80 employees and operates in 3 countries worldwide. It acquired WorldRes in 2005 and I was promoted by the new CEO to lead the development of the WorldRes' Central Reservation Engine, a **real time, concurrent, high volume online trading system** built in C++ and Core multithreaded Java that processed 400 million dollars of hotel bookings per year.

- Led the design and implementation of demand, supply link modules with GDS Systems Wizcom CRS, Amadeus CRS, Sabre CRS, Galileo CRS in the Central Reservation Engine (CRE).
- Developed the features for a real time international quoting system.
- Developed high performance rate caching system to improve system stability and user experience. This system processed terabytes of data uploaded to the system on scheduled intervals.
- Developed automated failure detection and recovery to track system performance, stability, and availability.
- Developed tools for automated smoke test of the product prior to delivery using JUnits, and logging.
- Developed tools to automate release of code to QA and productions environment.
- Developed SOA based Web Services APIs of WorldRes' distribution systems.
- Developed Axis/Java Web Service Algorithms for Keyword, Geo code, and city searches.
- Developed the WebServices SDK with a Reference Implementation in Java and VB.NET.
- Developed CRS modules for direct connect hotels on a ASP.NET platform.
- Developed a suite of tools used by partners and business teams to maintain private label sites. Implemented on MVC architecture using Java Servlets, JSP, XML, and JSTL (Tag libraries).
- Implemented the APIs for WorldRes' application security based on the java.security framework. This product is ported from Sybase to Active Directory (LDAP).
- Technology Management:

- Source and change management. Implemented a change/branch/merge strategy for the overall product line so that parallel development can be possible.
- Release implementation and announcement. Develop automation scripts to release software to QA and production. Provide QA with documentation of release including release notes and readme.
- Trained other members of the team to take up maintenance and enhancements of products.
- Responsible for coordinating with operations and directing the fixes for any production issues.
- Devised coding and documentation guidelines for development of APIs and socialized them by holding code/design review meetings.
- Supported Supply and Demand implementations using PHP, .NET, Java, Perl and, C. Prominent demand connections were Opendo, LastMinute.com, Zuji. Managed supply side connections with Best Western, Wizcom, Marriot and more.
- Supported the company through acquisition. Advised senior management and took on several added responsibilities to improve and expand the system.

2000 – 2001; Senior Software Consultant; Softweb Corporation; San Jose, CA.

- Project consultant for clients of Softweb corp. Always led at least one project at the client location at a time while advising on in-house projects and proposals.
- Member of the Core Management team & Led the Product Development Group.

1998 – 2000; Team Lead Engineer; Zahur Sancho (pvt.) Ltd.; Karachi.

- Led a team of four people to build ERP software using MS Visual Basic 5/6, MS Access and MS SQL Server. Developed ActiveX/COM components to implement the complete solution on time and under budget.

CERTIFICATIONS & TRAINING

- Django Python Developer Training - Cisco – 2012.
- Leadership Training by the Social Styles institute of America - Cisco– 2012.
- Certified Business 2 Government Specialist – B2G – 2008.
- J2EE Developer using EJB3 Certification – Avaya – 2008.
- Agile Development Certification – Avaya. – 2007.
- SIP - Communication Manager Certification – Avaya. – 2007.
- MS Visual Basic 6.0 Desktop Application Development – Microsoft.
- MS Visual Basic 6.0 Distributed Application Development – Microsoft.

EDUCATION

- Bachelor of Science in Computer Science (*summa cum laude high-merit, Class Rank 5th*); Lahore University of Management Sciences.
- A Levels (Mathematics, Economics, Accounting) (*Class Rank: 1, 3 A-s*); Saint Patrick's High School.
- O Levels (Additional Mathematics, Economics, Accounting, Commerce) (*Class Rank: 1, 6 A-s*); Saint Michael's Convent School.

RESEARCH INTERESTS

- Video collaboration, transcription, storage, and searching.
- Large systems log storage, searching, and analysis.