



Albert T Wong

Professional experience

Profile

Mr. Wong is an IT Architect with 8 years of experience working with industry specific technology solutions that consist of multiple hardware and software products in a technical sales and technical delivery role. For instance, as a member of the IBM Industry Solutions organization, he has deep business and technical experience in the Retail industry -- ranging from retail business processes and key performance indicators, to strategic retail solution areas like Total Store, Multichannel retailing, Supply Chain and Merchandising, and Retail Business Intelligence. His technical area of expertise is 1) business process execution excellence using technology and programming language agnostic tools, 2) process/messaging/data integration using Services Oriented Architecture techniques, and 3) IT architecture design, IT lifecycle management and IT Services Management using Rational Unified Process, IT Infrastructure Library and other industry-wide recognized methodologies.

Not at work, Mr. Wong is very active in Asian American Civil Rights as a officer for the Organization of Chinese Americans, an ACM Distinguished Speaker and was a past president of the University of California Irvine Alumni Association Information and Computer Science Chapter. He enjoys traveling all over the world, eating at local restaurants, shopping, learning about anything and everything, and donating time to worthy causes.

Employer History

**01/2008 - To date IBM Software, California, United States of America
IT Architect**

Mr. Wong is an IT Architect with IBM Industry Solutions organization focusing on the Retail. The main solution offerings he supports are Total Store (Point of Sales, Loss Prevention, RFID, Digital Media, Workforce Management), Multi-channel retailing, Supply Chain and Merchandising, and Retail Business Intelligence. He was formerly with the IBM Retail On Demand Emerging Business Opportunities (EBO), IBM Global Services Linux and Grid EBO, IBM Global Services Application Services, and IBM Sales and Distribution Technical Sales Support.

Due to the dynamic nature of the IBM Industry Solutions organization, his skills span the whole spectrum of I/T business and technical development from technical pre-sales, solution design and implementation, to ecosystem enablement.

**01/2006 - 12/2007 IBM, California, United States of America
IT Architect**

Mr. Wong is an IT Architect with IBM Retail On Demand Emerging Business Opportunities (EBO), the IBM skunkworks organization missioned to increase IBM business and technical solutions within the Retail industry. His specialization is the IBM Store Integration Framework, a store-level SOA framework, and IBM WebSphere Remote Server, a software package designed to provide a centrality managed, geographically distributed Java runtime environment for business process execution.



Due to the dynamic nature of the EBO, his skills span the whole spectrum of I/T business and technical development from technical pre-sales, solution design and implementation, to ecosystem enablement.

**07/2004 - 12/2005 IBM Global Services, California, United States of America
IT Architect**

Mr. Wong is an IT Architect with IBM Linux and Grid Computing Emerging Business Opportunities (EBO), the IBM skunkworks organization missioned to develop solutions based on Linux for the IT marketplace. His specialization is J2EE application development and application development on Linux, Linux system management, LAMP and multi-platform Grid Computing.

Due to the dynamic nature of the EBO, his skills span the whole spectrum of I/T business and technical development from technical pre-sales, solution design and implementation, to offering development.

Lead the IBM Open Source Software Review Board in IBM Global Services, Americas geography. IBM Open Source Software Review Board is part of the IGS Quality Assurance Process that reviews IGS engagements/projects with Open Source licenses for risk assessment and mitigation.

**06/1999 - 06/2004 IBM Global Services, California, United States of America
IT Specialist**

Mr. Wong is an IT Professional with IBM Global Services (IGS), the 180,000 strong consulting arm of IBM, with five years experience specializing in business-to-business and Enterprise Information Portal solution design/implementation for the Manufacturing, Health Care, Government industries.

His background in enterprise-wide web-based solutions provides him with the ability to not only implement, but also instruct, on the whole spectrum of IT development. His ability to effectively realize proven design concepts has also furthered his experience in the procurement of customer requirements, software application construction, customer relationship development, and technical mentorship. He has extensive knowledge and experience in object-oriented design principles, n-tier architecture, Sun J2EE, web application servers, open source/closed source frameworks/libraries like Apache Struts and IBM's EAD4J framework.

**01/1998 - 06/1999 University of California Irvine, California, United States of America
Undergraduate Researcher**

Mr. Wong was a member of University of California Irvine NetGroup Research Team under the direction of Professor Tatsuya Suda from 1997 to 1999.

He spent two years of undergraduate research dealing with automous mobile agents in a peer-to-peer architecture and edge server architecture and design. Paper submitted for publication titled,



"Real World Applications with Mobile Agents" co-authored with University of California, Irvine Computer Science Netgroup research team.

09/1997 - 06/1999 **University of California Irvine, California, United States of America**

Lead Residential Computing Support

Founded and managed the University of California Irvine Residential Computing organization at University of California Irvine. With a staff of 20+, Residential Computing provides computer technical support and services for 8,000+ on campus residents.

Assignment History **07/2008 - 07/2008**

Retail Specialty Chain

Project Description: Contributed to an IBM Business Value Assessment workshop where we worked to build a business case on ways to extend the value of the customer's existing eCommerce installation based on WebSphere Commerce. The proposed business case stated that there was significant value to be gained if the customer were to leverage the promotion engine more to provide targeted one to one marketing and personalization, and to reduce the operational costs by tightening the integration to their merchandising system, product information management system and customer information management system.

06/2008 - 06/2008

Retail Grocery Chain

Project Description: Built a demo showcasing the connectivity, transformation and routing capabilities of WebSphere Message Broker. Demo consisted of taking a IBM 4690 TLOG file pulled from a queue, transforming the file to ARTS POSLog message and finally inserting the data into an ARTS data model on IBM DB2. Customer was amazed on the ease of use and flexibility of the solution.

04/2008 - 05/2008

Retail Department Store Chain

Project Description: Worked as the technical subject matter expert to help an IBM business partner design a store infrastructure solution with a sizable disaster recovery / disaster avoidance component. The final solution consisted of WebSphere Application Server, DB2, WebSphere MQ, Tivoli Monitoring, Tivoli Provisioning Manager for Software and Tivoli Enterprise Console with emphasis on DB2 HADR and WebSphere Replication Server for the near realtime replication functionality for disaster recovery.

11/2007 - 03/2008

Retail Big Box Chain

Project Description: Worked as the technical lead to deliver the largest IBM middleware deployment in Latin America for our largest distribution sector account in Brazil -- 600 servers in 600 locations with WebSphere Application Server, DB2, WebSphere MQ, Tivoli Monitoring, Tivoli Provisioning Manager for Software and Tivoli Enterprise Console.

08/2007 - 10/2007

Retail Grocery Chain

Project Description: Worked as the technical lead to close a \$40 million+ cross-brand loss prevention deal at a grocery in United States -- 2500+ servers in 2500+ locations with WebSphere



Application Server, Tivoli Monitoring, Tivoli Configuration Manager and Tivoli Enterprise Console

- 02/2007 - 07/2007** Retail Grocery Chain
Project Description: Developed a proof of concept to showcase the benefits of a store JEE runtime that could be integrated to headquarterd merchandising systems via Service Oriented Architecture techniques.
- 01/2006 - 04/2006** Large retailing company
Project Description: Sold a new point of sales solution for the second largest retailer in Mexico. The solution allowed the retailer the capability to sell general goods, pay for government services like telephone and taxes, and pay for partner services like airline tickets. The sold solution consisted of IBM WebSphere Remote Server with Oracle Retail Point of Sales.
- 11/2005 - 11/2005** IBM
Project Description: Served as one of IBM Global Services representatives to the IBM Academy Study on IBM's Knowledge Management Process and Tool Strategy. He advises the team on what IBMers would like in their Knowledge Management tools and what are the emerging solutions in this space. Decisions from this study will impact all of IBM's 380,000 employees.
- 01/2005 - 12/2005** IBM
Project Description: Owner of the IBM Grid and Grow Offering and contributor to getting IBM Grid and Grow through the IGS Autobahn Integrated Solution Development Process, the official IGS offering process. As the result of his work, IBM Grid and Grow will be a global IGS offering.
- 07/2004 - 12/2005** IBM
Project Description: Lead the IBM Open Source Software Review Board in IBM Global Services, Americas geography. IBM Open Source Software Review Board is part of the IGS Quality Assurance Process that reviews IGS engagements/projects with Open Source licenses for risk assessment and mitigation.
- 03/2004 - 06/2004** Large automotive company
Project Description: Migrated a large automotive Websphere 3.5 website to Websphere 5.0 on Sun Solaris. The large automotive site consists of 150 megabytes of web content and code, 8 3rd-party vendors, a 1.5 gigabyte Oracle database, Microsoft Active Directory (LADP) and Vignette Content Management System. Served as a Websphere specialist that would conducting the migration. With the implemented solution, the customer will be better aligned to their long term I.T. strategic direction.
- 01/2004 - 02/2004** IBM
Project Description: Served as subject matter expert on designing the IGS Grid Design and Architecture 4 day workshop to train IBMers on Grid. Using "Grid Design" work breakdown structure from Global Services Method as a template for the class, his specific duties was to design the "Solution Outline" part of the



workshop. With the implemented class, IGS will be able to train IBMers on Grid Solution and deploy them on hot Grid opportunities.

02/2003 - 01/2004

Large government organization

Project Description: Re-engaged with a government client using IBM Websphere and Oracle database backend on Sun Solaris environment that has over 300,000 transactions executed in 2 months. Served as a Web Services developer specialization in Web Services integration using WSDL, Apache Soap/Axis and the IBM Web Services Security Toolkit. With the implemented solution, the customer allowed the site to be accessible to many more clients thus achieving better ROI on their investment.

12/2002 - 06/2006

IBM

Project Description: Co-Leader of IBM Global Services World Wide Open Source Open Source Community of Practice (CoP), a community (5500+) staffed by IBM Global Services employees from AMS, ITS, BCS, SO and e-Business Hosting to help IGS sell open source services and offerings. His specific duties as Co-Leader are overseeing the community governance functions, communicate with competencies and sponsors, and articulate value and define measurements for the community. In addition, he is responsible for governance of the Open Source Intellectual Capital data base on IGS ICM AssetWeb. His major successes has been growing the community from 0 to 5500+ members, development of IGS Open Source / Linux Engagement Portfolios that contain over 200 pieces of reuseable intellectual capital, and deployment of new Open Source education for the IGS field teams.

04/2002 - 07/2002

Large manufacturing company

Project Description: Engaged on a product recommendation web site for a manufacturing client using IBM Websphere and Oracle 8i on Sun Solaris environment. As lead developer, he lead the 3-person development team, designed the application architecture and defined the integration points, implemented 1/3 of the entire solution, configured Websphere for project use and mentored the customer on how to use IBM Websphere and other IBM products. As a result, this allowed the team to deliver the solution on a very demanding deadline (12 weeks) with exceptional architecture that was able to meet the client's criteria of 20+ use cases. The final solution replaces a 1.5 million US dollar product with a solution based on open source technologies like Apache Struts, Apache Log4J and JUnit on IBM Websphere. With the implemented solution, the client sees it as a strong foundation for their business to be driven on with the ability to adapt the site to more potential revenue streams. They expect up to 200% more consumer and buyer participation on the new web site.

11/2001 - 02/2002

Large government organization

Project Description: Engaged with a government client using IBM Websphere and Oracle database backend on Sun Solaris environment. As a developer on a project that will support over 100,000 users and 2,000 co-current users, he designed and implemented several of the core modules of the solution which



consisted over more than 50+ use cases. The final solution will provide procurement-like services to the client that will allow for a more streamlined, easier to use interface while providing relevant and meaningful information in a more intuitive manner to the end-user. The client was quite impressed with the amount of functionality and usability that the application had over the existing system and saw it as an important step to transform the government to a cutting edge entity.

Key Skills

Experience in design, implementation and deployment of the following: Service Oriented Architecture. IT Service Management. IBM WebSphere runtime and (EAI) integration portfolio. Rational IT lifecycle and software construction portfolio. Tivoli services management portfolio. IBM Information Management (ETL) data integration portfolio. Community development. Practitioner Knowledge Management. Practitioner Education/Skills development. Open Source technology. Linux. Sun Enterprise Java. Business process execution language (BPEL). Enterprise application integration (EAI). Extract, transform, load (ETL) technology. Industry key performance indicators. Rational Unified Process and Unified Modeling Language. IT Maturity Models. Industry body organizations. IT Service Management. Collaboration tools.

Key Courses and Training

IT Architect Introduction, ICM Asset Web / Knowledge Portal, Foundation of the IT Architect Profession, Client Consulting for IT Architects, IBM Unified Method Framework, Architectural Thinking, Systems Engineering and Architecture: Introduction, Performance Engineering, Use Case Modeling, Project Management Orientation, Project Management Fundamentals, Process and functional modeling, IBM Global Services Proposal Development Seminar, Solution Optimization (SOP) Technique, Systems Engineering and Architecture: Foundation, Component Modeling, Operational Modeling Workshop, Architecting for Performance.

Education

Qualifications

Bachelor of Science in Information and Computer Science
University of California, Irvine, United States of America, 2001

Languages

English	Fluent
Chinese (Traditional)	Basic

Other relevant information

Publications

Albert T. Wong, Andrew R. Freed, Tian Wang, Yashodhara Patnaik: **Step-by-step guide on how to integrate and manage your old and new Retail devices**, in: Website, IBM DeveloperWorks, 2007

Andrew R. Freed, Anhdao Nguyen, Vinod Bijlani, Albert Wong: **Step by step how-to on integrating your application with IBM Tivoli Monitoring 6.1**, in: Website, IBM DeveloperWorks, 2007

Ruth Willenborg, Kyle Brown, Keys Botzum, Albert Wong: **The top Java EE best practices**, in: Website, IBM DeveloperWorks, 2007

Byron Braswell, Marc Siegel, Le Gang Wu: **Enabling the On Demand Store with IBM Store Integration Framework**, in: Book, IBM, 2007

Byron Braswell, Marc Siegel, Le Gang Wu: **High Availability Architectures & Capacity**



Planning with WebSphere Remote Server V6, in: Book, IBM, 2007

Whei-Jen Chen, Andreas Blank, Michael Hoeller, Rakesh Midha, Klaus Subtil: **MySQL to DB2 UDB B2 UDB Conversion Guide**, in: Book, IBM, 2004

Membership in professional organizations

Association for Computing Machinery
Distinguished ACM Speaker

Other job-related activities

Taught week long classroom classes to IBM customers and IBM business partners on the following IBM products: IBM WebSphere Remote Server, IBM WebSphere Application Server, IBM WebSphere MQ, IBM DB2, IBM Tivoli Monitoring, IBM Tivoli Configuration Manager, IBM Tivoli Provisioning Manger for Software, IBM Tivoli Enterprise Console, IBM Retail Environment for SUSE Linux, IBM Remote Management Agent, IBM Director

Served 2005 to present as a chapter officer within the Organization of Chinese Americans, the largest Chinese American civil rights organization in United States.

Served as the 2002-2006 President of University of California, Irvine Information and Computer Science Alumni Chapter where he coordinated alumni, college and community events and mentored students that attend the University of California, Irvine.

Submitted 2 Patents to the United States Patent Office dealing with Voice over IP technology.

Industries: Retail

Project Domains: Application Development & Design, Web Design, Database Design, Systems Integration, Project Management, Network Infrastructure, Use Case and Test Case Documentation, User Documentation and Training, Testing, Practitioner education, Knowledge Management

Platforms: Microsoft Windows, SUSE Linux, Redhat Linux

Languages: Sun Java

Scripting Languages: Sun Java Server Pages, Sun Java Servlets, Shell scripting

Frameworks: Apache Struts, JUnit

Methodologies: IBM GS Method, Rational Unified Process, Extreme Programming

Industry Standards bodies: W3C, OASIS, OpenGroup, Java Community Process, Association of Retail Technology Standards

Datastore Software: IBM DB2, Sun MYSQL

Development/Support Software: Rational Software Architect, WebSphere Business Modeler, IBM Support Assistant, IBM Rational Portfolio Manager, IBM Rational RequisitePro, CVS, Eclipse IDE

Runtime Software: WebSphere Message Broker, WebSphere Application Server, IBM DB2 database, WebSphere Process Server, WebSphere MQ, IBM Information Server, Redhat JBoss, Apache Tomcat

System Management Software: Tivoli Monitoring, Tivoli Provisioning Manager, Tivoli Enterprise Console, Nagios, Heartbeat, DRDB

Serving as a public speaker for the Association for Computing Machinery (ACM) Distinguished Speakers Program. The ACM Distinguished Speakers Program is an outreach program of ACM that brings distinguished leaders from academia, industry, and government to give presentations to ACM chapters, members, and the greater IT community in a variety of venues and formats.

Keywords: Problem-solving and decision making skills, oral and written communication,



customer service, performance and productivity improvement, leadership, technology, team-building, project management and bilingual.